A catalog of optical/near-infrared data on GRB afterglows in the pre-Swift era.

I. Light curve information

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ABSTRACT

The present catalog is the result of our attempts to collect all published photometric data on GRB afterglows observed in the pre-Swift era by the end of 2004 in order to gain statistical insight on the phenomenology of GRB afterglows. Part I contains all published data on GRB afterglows in filters we used in Zeh, Klose, & Kann (2005) to create reference light curves and derive light curve parameters (mostly R band, but a few bursts have better data in other colors) including the corresponding references. The catalog includes GCN data as well as data published in refereed journals. No data have been omitted or evaluated in any way (with the exception of a very small number of data that turned out to be not related to an afterglow). Part II will contain color information via the observed light curves in the other photometric bands (Kann et al. 2006, in preparation). Using a simple computer program that can handle strings our catalog is easy to use since all tables are provided in TeX format. For an on-line searchable GCN catalog, we refer to the work done by Quimby et al. (2003).

Our catalog includes photometric data on 59 bursts (GRB 970228 - GRB 041006) with altogether 4883 data points. Most data are from GRB 030329 (2759 data points), followed by GRB 021004 (393 data points), while 13 bursts have less than 10 data points. In the case of GRB 030329 we have not included the extensive data list which is on-line provided by Lipkin et al. (2004).

The catalog is organized as follows. We provide for every GRB the reported time of the photometric measurement after the burst in units of days, the corresponding magnitude, the 1σ error, the date of the measurement, and information on whether the reported data are corrected for Galactic extinction (NE = not corrected, CE = corrected) or host contribution (NH = not corrected, CH = corrected). References are given for every individual burst. Remarks are indicated by numbers in the last column. The time after the burst was calculated based on the information given in the corresponding BACODINE messages. We

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acknowledge here the work done by Barthelmy et al. (2001) in collaboration with all teams that operated the various satellites/GRB experiments.

We intend to update this catalog as soon as more data on pre-Swift bursts become public. If any researchers have photometric data that they do not plan to publish in a refereed journal but wish to share with the community, we will gladly include it in this database. Please contact kann@tls-tautenburg.de.

When making use of the present catalog for a publication, please make a reference to Zeh et al. (2005).

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Greiner, J. 2005, see http://www.mpe.mpg.de/~jcg/grbgen.html

Lipkin, Y. M. et al. 2004, ApJ, 606, 381 (see also http://wise-obs.tau.ac.il/ $^{\sim}$ eran/GRB/030329/Data/GRB030329_LC.txt)

Quimby, R., McMahon, E., & Murphy, J. 2004, in AIP Conf. Proc. 727, Gamma-Ray Bursts: 30 Years of Discovery, ed. E. E. Fenimore and M. Galassi (New York: AIP), 529 (astro-ph/0312314)

Zeh, A., Klose, S., & Kann, D. A. 2005, ApJ, submitted (astro-ph/0509299)

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Table 1. Number of data points per GRB

GRB	#	GRB	#	GRB	#	GRB	#
GRB 970228	46	GRB 970508	91	GRB 970815	7	GRB 971214	15
GRB 980326	26	GRB 980329	36	GRB 980519	35	GRB 980613	13
GRB 980703	27	GRB 990123	118	GRB 990308	6	GRB 990510	66
GRB 990705	3	GRB 990712	25	GRB 991208	24	GRB 991216	54
GRB 000131	4	GRB 000301C	62	GRB 000418	28	GRB 000630	11
GRB 000911	27	GRB 000926	61	GRB 001007	10	GRB 001011	6
GRB 010222	89	GRB 010921	30	GRB 011121	30	GRB 011211	49
GRB 020124	21	GRB 020305	14	GRB 020322	10	GRB 020331	16
GRB 020405	40	GRB 020410	4	GRB 020813	67	XRF 020903	17
GRB 021004	393	GRB 021211	73	GRB 030115	7	GRB 030131	7
GRB 030226	51	GRB 030227	19	GRB 030323	47	GRB 030324	7
GRB 030328	25	GRB 030329	2759	GRB 030418	28	GRB 030429	19
GRB 030528	5	XRF 030723	45	GRB 030725	17	GRB 031203	32
GRB 031220	8	GRB 040106	7	GRB 040422	3	GRB 040827	13
XRF 040916	14	GRB 040924	23	GRB 041006	93		

Table 2. **GRB 970228**

dt	mag	+error	-error	band	date	corrections	reference	remark
0.64	21.1	0.2	0.2	$R_{\rm C}$	970228.77	NE,NH	Gal387	
0.68	20.5	0.5	0.5	$R_{\rm C}$	970228.81	NE,NH	Gal387	
0.686	20	0.5	0.5	$R_{\rm C}$	970228.81	NE,NH	Gal536	
0.703	21.1	0.2	0.2	$R_{\rm C}$	970228.827	NE,NH	Gua328	
0.706	20.58	0.28	0.28	$R_{\rm C}$	970228.83	NE,NH	Gal536	
0.87	20.9	0.14	0.14	$R_{\rm C}$	970228.99	NE,NH	Gal387	4
1.667	> 21.4	0	0	$R_{\rm C}$	970301.791	NE,NH	Gua328	
2.98	22.2	0.7	0.7	$R_{\rm C}$	970303.10	NE,NH	Gal387	4
2.98	22.3	0.9	0.7	$R_{\rm C}$	970303.10	NE,CH	Gal387	4
3.64	22.3	0.5	0.5	$R_{\rm C}$	970303.764	NE,NH	Gua328	
3.776	> 22.7	0.2	0.2	$R_{\rm C}$	970303.9	NE,NH	Gal536	
4.667	22.2	0.5	0.5	$R_{\rm C}$	970304.791	NE,NH	Gua328	
4.736	23.28	0.4	0.4	$R_{\rm C}$	970304.86	NE,NH	Gal536	
4.74	> 23.3	0	0	$R_{\rm C}$	970304.86	NE,NH	Gal387	4
4.74	> 23.6	0	0	$R_{\rm C}$	970304.86	NE,CH	Gal387	4
5.734	> 22.2	0	0	$R_{\rm C}$	970305.858	NE,NH	Gua328	
6.196	23.6	0.22	0.22	$R_{\rm C}$	970306.32	NE,NH	Gal536	
6.2	24	0.2	0.2	$R_{\rm C}$	970306.32	NE,NH	Gal387	
6.2	24.8	1.2	0.5	$R_{\rm C}$	970306.32	NE,CH	Gal387	
7.825	> 22.5	0	0	$R_{\rm C}$	970307.70	NE,NH	Wij288	5
8.76	> 22.6	0	0	$R_{\rm C}$	970308.88	NE,NH	Gal387	4
8.76	> 22.8	0	0	$R_{\rm C}$	970308.88	NE,CH	Gal387	4
8.766	> 23.35	0.08	0.08	$R_{\rm C}$	970308.89	NE,NH	Gal536	
9.768	23.75	0.28	0.28	$R_{\rm C}$	970309.896	NE,NH	Gal536	3
9.768	24	0	0	$R_{\rm C}$	970309.896	NE,NH	van 386	
9.77	24	0.2	0.2	$R_{\rm C}$	970309.90	NE,NH	Gal387	
9.77	24.8	1.2	0.5	$R_{\rm C}$	970309.90	NE,CH	Gal387	
12.678	22.6	0.5	0.5	$R_{\rm C}$	970312.802	NE,NH	Gua328	
12.876	24.36	0.15	0.15	$R_{\rm C}$	970313.00	NE,NH	Gal536	
12.876	23.8	0	0	$R_{\rm C}$	970313.000	NE,NH	van 386	
12.88	24.3	0.2	0.2	$R_{\rm C}$	970313.00	NE,NH	Gal387	
12.88	25.6	2.6	0.9	$R_{\rm C}$	970313.00	NE,CH	Gal387	
13.728	> 22.3	0	0	$R_{\rm C}$	970313.852	NE,NH	Gua328	

Table 2—Continued

dt	mag	+error	-error	band	date	corrections	reference	remark
18.691	>20.6	0	0	R_{c}	970318.815	NE,NH	Gua328	
26.3	24.1	0.2	0.2	$R_{\rm C}$	970326.42	NE,NH	Gal387	4
26.3	25.17	0.13	0.13	$R_{\rm c}$	970326.42	NE,CH	Gal387	4
31.88	25.48	0.22	0.2	$R_{\rm c}$	970401	NE,NH	Cas 523	1,2
36.636	24.97	0.25	0.25	R_{c}	970405.76	NE,NH	Gal536	
38.1	24.2	0.15	0.15	$R_{\rm c}$	970407.23	NE,NH	Gal387	4
38.1	25.5	0.13	0.13	$R_{\rm C}$	970407.23	NE,CH	Gal387	4
187.876	25.5	0.5	0.5	$R_{\rm c}$	970904	NE,NH	Gal536	
188.586	27.69	0.4	0.4	$R_{\rm c}$	970904.71	NE,CH	Gal536	
188.586	25.22	0.2	0.2	$R_{\rm C}$	970904.71	NE,NH	Gal536	
188.5893	27.09	0.14	0.14	$R_{\rm c}$	970904.7129	NE,CH	Cas 523	
188.5893	25.54	0.33	0.22	$R_{\rm c}$	970904.7129	NE,NH	Cas 523	1
550.226	> 25.29	0.06	0.06	$R_{\rm\scriptscriptstyle C}$	980901.35	NE,NH	Gal536	

Cas523 = Castander, F. J. et al. 1999, ApJ, 523, 593

Gal387 = Galama, T. J. et al. 1997, Nature, 387, 479

Gal536 = Galama, T. J. et al. 2000, ApJ, 536, 185

Gua328 = Guarnieri, A. et al. 1997, A&A, 328, L13

van 386 = van Paradijs, J. et al. 1997, Nature, 386, 686

Wij288 = Wijers, R. A. M. J. et al. 1997, MNRAS, 288, L51

Note. —

This afterglow had a very close neighbor, an M dwarf 2."9 away. Light from this star ($R_c = 21.906 \pm 0.067$ (NE; Gal536)) may contaminate the afterglow magnitudes (e.g. Gua328).

- 1 = host galaxy with optical transient flux removed
- 2 = from stacked HST images, taken 970326 and 970407
- 3 = time replaced with time from van 386

- $4 = converted into R_c$
- 5= converted from published flux density in μJy and re-reddened

Table 3. **GRB 970508**

dt	mag	error	band	date	corrections	reference	remark
0.224	21.2	0.1	$R_{\rm C}$	970509.128	NE,NH	Cas279	
0.291	21.08	0.15	$R_{\rm C}$	970509.195	NE,NH	Gar 500	3
0.296	21.25	0.05	$R_{\rm C}$	970509.20	NE,NH	Gal497	
0.841	21.19	0.25	$R_{\rm C}$	970509.75	NE,NH	Sok334	
0.944	21.13	0.18	$R_{\rm C}$	970509.85	NE,NH	Sok334	
0.995	20.9	0.1	$R_{\rm C}$	970509.899	NE,NH	Cas 279	
0.995	20.7	0.1	$R_{\rm C}$	970509.899	NE,NH	Gar 500	
1.026	20.88	0.05	$R_{\rm C}$	970509.93	NE,NH	Gal497	
1.126	20.46	0.05	$R_{\rm C}$	970510.03	NE,NH	Gal497	
1.238	20.09	0.02	$R_{\scriptscriptstyle \mathrm{C}}$	970510.142	NE,NH	Gar 500	
1.274	19.93	0.09	$R_{\rm C}$	970510.178	NE,NH	Gar 500	3
1.866	19.70	0.03	$R_{\rm C}$	970510.77	NE,NH	Sok334	
1.946	19.6	0.1	$R_{\rm C}$	970510.850	NE,NH	Gar 500	
1.946	19.8	0.1	$R_{\rm C}$	970510.85	NE,NH	Cas 279	
1.968	19.6	0.2	$R_{\rm C}$	970510.872	NE,NH	Gar 500	
1.968	19.8	0.2	$R_{\rm C}$	970510.872	NE,NH	Cas 279	
2.026	19.80	0.03	$R_{\rm C}$	970510.93	NE,NH	Sok334	
2.076	19.92	0.05	$R_{\rm C}$	970510.98	NE,NH	Gal497	
2.106	19.77	0.07	$R_{\rm C}$	970511.01	NE,NH	Gal497	
2.240	19.9	0.1	$R_{\rm C}$	970511.144	NE,NH	Gar 500	
2.240	20.1	0.1	$R_{\rm C}$	970511.144	NE,NH	Cas 279	
2.294	19.87	0.10	$R_{\rm C}$	970511.198	NE,NH	Gar 500	3
2.856	20.10	0.03	$R_{\scriptscriptstyle \mathrm{C}}$	970511.76	NE,NH	Sok334	
2.964	20.2	0.1	$R_{\rm C}$	970511.868	NE,NH	Gar 500	
2.964	20.4	0.1	$R_{\rm C}$	970511.868	NE,NH	Cas 279	
3.126	20.30	0.07	$R_{\rm C}$	970512.03	NE,NH	Gal497	
3.231	20.26	0.03	$R_{\scriptscriptstyle \mathrm{C}}$	970512.135	NE,NH	Gar 500	
3.235	20.3	0.1	$R_{\scriptscriptstyle \mathrm{C}}$	970512.139	NE,NH	Gar 500	
3.235	20.5	0.1	$R_{\rm C}$	970512.139	NE,NH	Cas 279	
3.291	20.28	0.12	$R_{\rm C}$	970512.195	NE,NH	Gar 500	3
3.299	20.25	0.02	$R_{\rm C}$	970512.203	NE,NH	Gar 500	
3.966	20.63	0.05	$R_{\rm C}$	970512.87	NE,NH	Sok334	
4.275	20.50	0.15	$R_{\rm C}$	970513.179	NE,NH	Gar 500	3

Table 3—Continued

dt	mag	error	band	date	corrections	reference	remark
4.946	20.3	0.1	$R_{\rm C}$	970513.850	NE,NH	Gar500	
4.946	20.5	0.1	R_c	970513.85	NE,NH	Cas279	
4.976	21.09	0.07	$ m R_{c}$	970513.88	NE,NH	Sok334	
5.262	21.05	0.07	R_c	970514.167	NE,NH	Gar500	
5.496	20.9	0.2	$ m R_{c}$	970514.400	NE,NH	Gar500	
5.956	21.3	0.2	R_{c}	970514.860	NE,NH	Gar 500	
5.956	21.5	0.2	R_{c}	970514.86	NE,NH	Cas279	
6.078	21.25	0.05	R_{c}	970514.9822	NE,NH	Ped496	
7.086	21.5	0.2	$R_{\rm C}$	970515.99	NE,NH	Kel4496	
7.985	21.51	0.10	$R_{\rm C}$	970516.8899	NE,NH	Ped496	
10.157	21.88	0.25	$R_{\rm C}$	970519.0616	NE,NH	Ped496	
10.296	21.92	0.10	$R_{\rm C}$	970519.2006	NE,NH	Ped496	
11.971	21.81	0.10	$R_{\rm C}$	970520.875	NE,NH	Sok334	
12.988	22.09	0.07	$R_{\rm C}$	970521.892	NE,NH	Sok334	
13.096	22.20	0.15	$R_{\rm C}$	970522.00	NE,NH	Sok334	
14.066	22.04	0.07	$R_{\rm C}$	970522.97	NE,NH	Gal497	
23.096	> 23.5	0.2	$R_{\rm C}$	970601.00	NE,NH	Kel4496	
24.014	23.10	0.07	$R_{\rm C}$	970601.9189	NE,NH	Ped496	
24.686	23.1	0.15	$R_{\rm C}$	970602.59	NE,NH	Pia492	2
27.356	23.2	0.2	$R_{\rm C}$	970605.26	NE,NH	Gar 500	
29.985	23.52	0.10	$R_{\rm C}$	970607.8896	NE,NH	Ped496	
30.085	23.66	0.10	$R_{\rm c}$	970607.917	NE,NH	Sok334	
31.087	23.54	0.20	$R_{\rm c}$	970608.991	NE,NH	Sok334	
31.696	23.28	0.10	$R_{\rm C}$	970609.60	NE,NH	Sok334	
33.024	23.34	0.22	$R_{\rm C}$	970610.928	NE,NH	Sok334	
36.061	23.42	0.14	$R_{\rm c}$	970613.966	NE,NH	Sok334	
37.042	23.50	0.25	$R_{\rm c}$	970614.9469	NE,NH	Ped496	
49.989	23.88	0.16	$R_{\rm c}$	970627.893	NE,NH	Sok334	
56.286	23.95	0.2	$R_{\rm C}$	970704.19	NE,NH	Gal497	
60.042	24.08	0.20	$R_{\rm C}$	970707.946	NE,NH	Sok334	
83.940	24.54	0.25	$R_{\rm C}$	970731.843	NE,NH	Sok334	
85.902	24.28	0.35	$R_{\rm C}$	970802.807	NE,NH	Sok334	
92.2752	> 23.70	0	$R_{\rm C}$	970809.1792	NE,NH	Ped496	

Table 3—Continued

dt	mag	error	band	date	corrections	reference	remark
97.276	24.28	0.10	$R_{\rm C}$	970814.18	NE,NH	Ped496	4
109.096	>24.0	0	$R_{\rm C}$	970826.00	NE,NH	Cas 279	
109.996	24.57	0.07	$R_{\rm C}$	970826.90	NE,NH	Gal497	
154.04	24.30	0.20	$R_{\rm c}$	971009.94	NE,NH	Zha337	4
185.15	24.70	0.15	$R_{\rm C}$	971110.04	NE,NH	Zha337	4
201.04	24.70	0.14	$R_{\rm c}$	971125.97	NE,NH	Zha337	4
204.1	25.09	0.14	$R_{\rm c}$	971129	NE,NH	Blo507	4
260.96	24.96	0.17	$R_{\rm C}$	980124.87	NE,NH	Sok344	5
289.5	25.29	0.16	$R_{\rm C}$	980222.4	NE,NH	Blo507	4
315.596	25.20	0.25	$R_{\rm C}$	980320.5	NE,NH	Gar 500	
440.08	24.90	0.16	$R_{\rm C}$	980722.99	NE,NH	Sok344	
469.84	24.99	0.17	$R_{\rm C}$	980821.74	NE,NH	Sok344	
0.1306	21.11	0.08	CR	970509.0346	NE,NH	Ped496	
0.1372	21.16	0.05	CR	970509.0412	NE,NH	Ped496	
0.171	21.1	0.1	CR	970509.075	NE,NH	Cas 279	
0.1733	21.21	0.06	CR	970509.0773	NE,NH	Ped496	
0.9581	21.12	0.05	CR	970509.8621	NE,NH	Ped496	
0.9692	21.16	0.05	CR	970509.8732	NE,NH	Ped496	
0.9810	21.03	0.05	CR	970509.8850	NE,NH	Ped496	
1.0002	21.25	0.06	CR	970509.9042	NE,NH	Ped496	
0.291	21.42	0.15	r	970509.195	NE,NH	Djo387	1
1.274	20.27	0.09	r	970510.178	NE,NH	Djo387	1
2.294	20.31	0.10	r	970511.198	NE,NH	Djo387	1
3.291	20.62	0.12	r	970512.195	NE,NH	Djo387	1
4.275	20.84	0.15	r	970513.179	NE,NH	Djo387	1

 ${\rm Blo507 = Bloom, \ J. \ S. \ et \ al. \ 1998, \ ApJ, \ 507, \ L25}$

Cas279 = Castro-Tirado, A. J. et al. 1998, Science, 279, 1011

Djo387 = Djorgovski, S. G. et al. 1997, Nature, 387, 876

Gal497 = Galama, T. J. et al. 1998, ApJ, 497, L13

Gar500 = Garcia, M. R. et al. 1998, ApJ, 500, L105

Kel4496 = Kelemen, J. et al. 1997, IBVS 4496

Ped496 = Pedersen, H. et al. 1998, ApJ, 496, 311

Pia492 = Pian, E. et al. 1998, ApJ, 492, L103

Sok334 = Sokolov, V. V. et al. 1998, A&A, 334, 117

Sok344 = Sokolov, V. V. et al. 1999, A&A, 344, 43

Zha337 = Zharikov, S. V. et al. 1998, A&A, 337, 356

Note. —

The data point from IBVS 4594 (M. Nalezyty, 1998) could not be included as no UT time is given.

- 1 = re-reddened according to the values given in Djo387
- 2 =derived from HST STIS Clear (V, I_c) and HST NICMOS F160W (H)
- 3 = converted from Djo387 Gunn r measurements
- 4 = dt and date according to Gar500
- 5 =also presented in Zha337

Table 4. **GRB 970815**

dt	mag	error	band	date	corrections	reference	remark
1.695 2.645 4.775 5.695 9.695 11.695 1837.5	>19.9 22.1 22.3 >20.5 >21 >21 >24	0.1 0.1	$egin{array}{c} I_{\mathrm{C}} & & & & & & & & & & & & & & & & & & $	970817.2 970818.15 970820.28 970821.2 970825.2 970827.2 020827	NE,NH NE,NH NE,NH NE,NH NE,NH NE,NH NE,NH	Ada6725 Sod2837 Sod2837 Ada6725 Ada6725 Ada6725 Sod2837	

Ada6725 = Adams, M. T. et al. 1997, IAUC 6723Sod2837 = Soderberg, A. M. et al. 2004, GCN 2837

Note. —

The afterglow of this GRB was not found until 2004, when a Chandra observation (and non-detection) of an X-ray source outside the RXTE/ASM error box lead to the conclusion that this source was the X-ray afterglow of GRB 970815 (Mirabal, N. et al. 2005, ApJ, 620, 379). The re-examination of images found the optical afterglow at the same position (Sod2837 supersedes the upper limits reported in IAUC 6723 by S. R. Kulkarni et al.). Thus, some of the upper limits are of regions (i. e. the error box) not including the afterglow.

Table 5. **GRB 971214**

dt	mag	+error	-error	band	date	corrections	reference	remark
0.5273	21.7	0.10	0.10	$R_{\rm C}$	971215.50	NE,NH	Kul393	
0.5373	22.1	0.1	0.10	$R_{\rm C}$	971215.51	NE,NH	Kul393	
0.5373	22.1	0.01	0.01	$R_{\rm C}$	971215.51	NE,NH	Hal393	
0.5373	22.06	0.06	0.06	$R_{\rm C}$	971215.51	NE,NH	Die503	
0.827	> 21	0	0	$R_{\rm C}$	971215.8	NE,NH	Ito6788	
1.4873	23.3	0.17	0.17	$R_{\rm C}$	971216.46	NE,NH	Kul393	
1.5473	23.7	0.30	0.30	$R_{\rm C}$	971216.52	NE,NH	Kul393	1
1.5573	23.36	0.13	0.13	$R_{\rm C}$	971216.53	NE,NH	Die503	
1.6573	23.7	0.10	0.10	$R_{\rm C}$	971216.63	NE,NH	Kul393	
2.5273	24.08	0.16	0.16	$R_{\rm C}$	971217.50	NE,NH	Die503	
2.5373	24.4	0.50	0.50	$R_{\rm C}$	971217.51	NE,NH	Kul393	1
3.5273	24.61	0.22	0.22	$R_{\rm C}$	971218.50	NE,NH	Die 503	
26.6473	25.6	0.17	0.17	$R_{\rm C}$	980110.62	NE,NH	Kul393	
71.5473	25.6	0.15	0.15	$R_{\rm c}$	980224.52	NE,NH	Kul393	
221.877	25.69	0.3	0.3	$R_{\rm C}$	980724.84	NE,NH	Sok372	

Die 503 = Diercks, A. et al. 1998, ApJ, 503, L10

 $\operatorname{Hal393} = \operatorname{Halpern}, \, \operatorname{J.} \, \operatorname{P.} \, \operatorname{et} \, \operatorname{al.} \, 1998, \, \operatorname{Nature}, \, 393, \, 41$

 $\label{eq:to6788} \text{Ito6788} = \text{Itoh, N. et al. 1997, IAUC 6788}$

Kul393 = Kulkarni, S. R. et al. 1998, Nature, 393, 35

 $\mathrm{Sok}372 = \mathrm{Sokolov},\,\mathrm{V}.\,\,\mathrm{V}.$ et al. 2001, A&A, 372, 438

Note. —

1 = also in Hal393

Table 6. **GRB 980326**

dt	mag	+error	-error	band	date	corrections	reference	remark
0.422	21.19	0.1	0.1	$R_{\rm C}$	980327.31	NE,NH	Gro502	
0.462	21.25	0.03	0.03	$R_{\rm c}$	980327.35	NE,NH	Blo401	
0.513	21.98	0.16	0.16	$R_{\rm C}$	980327.401	NE,NH	Gro502	
0.549	22.18	0.16	0.16	$R_{\rm C}$	980327.437	NE,NH	Gro502	
0.952	> 21.85	0	0	$R_{\rm C}$	980327.84	NE,NH	Gro502	
0.964	> 22.0	0	0	$R_{\rm C}$	980327.852	NE,NH	Gro502	
0.98	22.8	0.7	0.7	$R_{\rm C}$	980327.868	NE,NH	Cas138	2
1.128	23.66	0.12	0.12	$R_{\rm C}$	980328.016	NE,NH	Gro502	
1.129	23.43	0.25	0.25	$R_{\rm c}$	980328.017	NE,NH	Gro502	
1.157	23.50	0.12	0.25	$R_{\rm C}$	980328.045	NE,NH	Gro502	
1.232	> 22.5	0	0	$R_{\rm c}$	980328.120	NE,NH	Gro502	
1.290	23.60	0.12	0.12	$R_{\rm c}$	980328.178	NE,NH	Gro502	
1.362	23.69	0.1	0.1	$R_{\rm C}$	980328.25	NE,NH	Gro502	
1.362	23.58	0.07	0.07	$R_{\rm C}$	980328.25	NE,NH	Blo401	
2.382	24.45	0.3	0.3	$R_{\rm C}$	980329.27	NE,NH	Blo401	1
2.536	>23	0	0	$R_{\rm C}$	980329.424	NE,NH	Gro502	
3.190	24.88	0.32	0.26	$R_{\rm c}$	980330.078	NE,NH	Gro502	
3.312	25.03	0.15	0.15	$R_{\rm c}$	980330.2	NE,NH	Gro502	
3.352	24.80	0.15	0.15	$R_{\rm C}$	980330.24	NE,NH	Blo401	
4.194	25.20	0.23	0.20	$R_{\rm c}$	980331.082	NE,NH	Gro502	
5.192	> 24.9	0	0	$R_{\rm C}$	980401.080	NE,NH	Gro502	
11.262	> 24.4	0	0	$R_{\rm C}$	980407.15	NE,NH	Gro502	
21.362	25.34	0.33	0.33	$R_{\scriptscriptstyle \mathrm{C}}$	980417.25	NE,NH	Blo401	
21.412	25.5	0.5	0.5	$R_{\rm c}$	980417.3	NE,NH	Gro502	
27.362	24.9	0.3	0.3	$R_{\rm C}$	980423.25	NE,NH	Blo401	1
266.612	> 27.3	0	0	$R_{\rm\scriptscriptstyle C}$	981218.50	NE,NH	Blo401	

Blo401 = Bloom, J. S. et al. 1999, Nature, 401, 453

 $\operatorname{Cas} 138 = \operatorname{Castro-Tirado}, \, \operatorname{A. J.}$ et al. 1999, A&AS, 138, 449

 ${
m Gro}502 = {
m Groot}, \, {
m P.} \, {
m J.} \, \, {
m et \, al.} \, \, 1998, \, {
m ApJ}, \, 502, \, {
m L}123$

Note. —

1 = deduced from spectrum

2 = time estimated from graphic

Table 7. **GRB 980329**

dt	mag	error	band	date	corrections	reference	remark	
0.6741	>20	0	0	$R_{\rm c}$	980329.83	NE,NH	Pal336	
0.6941	>22	0	0	$R_{\rm c}$	980329.85	NE,NH	Pal336	
0.6993	>22.2	0	0	$R_{\rm C}$	980329.8552	NE,NH	Gor347	
0.7441	>21	0	0	$R_{\scriptscriptstyle \rm C}$	980329.9	NE,NH	Pal336	
0.7441	> 22	0	0	$R_{\scriptscriptstyle \mathrm{C}}$	980329.9	NE,NH	Pal336	
0.7497	23.7	0.5	0.5	$R_{\rm C}$	980329.9056	NE,NH	Gor 347	
0.7606	> 18.5	0	0	$R_{\rm c}$	980329.9165	NE,NH	Ped52	
0.7641	> 21	0	0	$R_{\rm C}$	980329.92	NE,NH	Pal336	
0.8341	23.6	0.2	0.2	$R_{\rm c}$	980329.99	NE,NH	Pal336	
0.8441	> 22.3	0	0	$R_{\rm c}$	980330.0	NE,NH	Pal336	
1.7397	> 20.3	0	0	$R_{\rm C}$	980330.8956	NE,NH	Gor 347	
1.7441	> 22	0	0	$R_{\rm C}$	980330.9	NE,NH	Pal336	
1.7741	> 25.3	0	0	$R_{\rm c}$	980330.93	NE,NH	Pal336	
1.8341	> 24	0	0	$R_{\rm C}$	980330.99	NE,NH	Pal336	
1.8441	> 23	0	0	$R_{\rm c}$	980331.0	NE,NH	Pal336	
1.8545	>20.8	0	0	$R_{\rm c}$	980331.0104	NE,NH	Gor347	
2.2441	25.0	0.5	0.5	$R_{\rm c}$	980331.4	NE,NH	Pal336	2
2.3441	> 22	0	0	$R_{\rm C}$	980331.5	NE,NH	Pal336	
2.6949	> 21.2	0	0	$R_{\rm C}$	980331.8508	NE,NH	Gor347	
2.7141	> 25.3	0	0	$R_{\rm C}$	980331.87	NE,NH	Pal336	
2.7845	> 22.8	0	0	$R_{\rm C}$	980331.9404	NE,NH	Gor347	
2.8145	> 22.8	0	0	$R_{\rm C}$	980331.9704	NE,NH	Gor347	
2.8541	> 24	0	0	$R_{\rm C}$	980401.01	NE,NH	Pal336	
2.9641	25.35	0.35	0.25	$R_{\rm C}$	980401.12	NE,NH	Rei517	
2.9691	25.2	0.3	0.3	$R_{\rm C}$	980401.125	NE,NH	Pal336	
3.0141	>24.2	0	0	$R_{\rm C}$	980401.17	NE,NH	Pal336	
3.7941	> 25.5	0	0	$R_{\rm C}$	980401.95	NE,NH	Pal336	
3.8441	25.7	0.3	0.3	$R_{\rm C}$	980402.0	NE,NH	Pal336	2
4.7758	> 21.2	0	0	$R_{\rm C}$	980402.9317	NE,NH	Gor347	
4.9441	> 23.9	0	0	$R_{\rm C}$	980403.1	NE,NH	Pal336	
4.9941	> 23.3	0	0	$R_{\rm C}$	980403.15	NE,NH	Rei517	
6.1341	25.31	0.14	0.14	$R_{\rm C}$	980404.29	NE,NH	Yos577	

Table 7—Continued

dt	mag	error	band	date	corrections	reference	remark	
26.0941 244.8441 879 1009.1641	27.0	0.30 0.19 0.1 0.25	0.23 0.19 0.1 0.20	$R_{\rm C}$ $R_{\rm C}$ $R_{\rm C}$	980424.25 981129 000825 010101.32	NE,NH NE,NH NE,NH NE,NH	Yos577 Yos577 Jau402 Yos577	1

Gor347 = Gorosabel, J. et al. 1999, A&A, 347, L31

Jau402 = Jaunsen, A. O. et al. 2003, A&A, 402, 125

Pal336 = Palazzi, E. et al. 1998, A&A, 336, L95

Ped52 = Pedersen, H. et al. 1998, GCN 52

Rei517 = Reichart, D. E. et al. 1999, ApJ, 517, 692

Yos577 = Yost, S. A. et al. 2002, ApJ, 577, 155

Note. —

1 = Transformed from HST STIS 50CCD Clear filter

2 = also in Rei517

Table 8. **GRB 980519**

dt	mag	error	band	date	corrections	reference	remark
0.5399	19.84	0.01	$R_{\rm C}$	980520.054	NE,NH	Jau546	
0.6369	20.27	0.01	$R_{\rm C}$	980520.151	NE,NH	Jau546	
0.6484	20.28	0.10	$R_{\rm C}$	980520.1625	NE,NH	Vrb528	
0.6489	20.39	0.12	$R_{\rm C}$	980520.163	NE,NH	Hal517	
0.7089	20.48	0.03	$R_{\rm C}$	980520.223	NE,NH	Jau546	
0.7148	20.68	0.14	$R_{\rm C}$	980520.2289	NE,NH	Vrb528	
0.7149	20.77	0.15	$R_{\rm C}$	980520.229	NE,NH	Hal517	
0.7729	20.87	0.13	$R_{\rm C}$	980520.287	NE,NH	Hal517	
0.7731	20.79	0.14	$R_{\rm C}$	980520.2872	NE,NH	Vrb528	
0.7959	20.8	0.20	$R_{\rm C}$	980520.31	NE,NH	Vrb528	
0.7959	20.76	0.07	$R_{\rm C}$	980520.31	NE,NH	Hal517	
0.8859	21.04	0.25	$R_{\rm C}$	980520.4	NE,NH	Vrb528	
0.8859	21.00	0.25	$R_{\rm C}$	980520.4	NE,NH	Hal517	
0.9259	21.18	0.03	$R_{\rm C}$	980520.44	NE,NH	Vrb528	
0.9259	21.10	0.03	$R_{\rm C}$	980520.44	NE,NH	Hal517	
0.9309	21.15	0.13	$R_{\rm c}$	980520.445	NE,NH	Hal517	
0.9310	21.09	0.13	$R_{\rm C}$	980520.4451	NE,NH	Vrb528	
0.9659	21.48	0.09	$R_{\rm c}$	980520.48	NE,NH	Vrb528	
0.9659	21.50	0.09	$R_{\rm C}$	980520.48	NE,NH	Hal517	
1.9549	23.39	0.20	$R_{\rm C}$	980521.469	NE,NH	Vrb528	
1.9549	23.41	0.20	$R_{\rm C}$	980521.469	NE,NH	Hal517	
2.0859	23.01	0.13	$R_{\rm C}$	980521.6	NE,NH	Vrb528	
2.0859	23.03	0.13	$R_{\rm C}$	980521.6	NE,NH	Hal517	
2.7292	>24.0	0	$R_{\rm C}$	980522.2433	NE,NH	Vrb528	
3.6759	24.31	0.12	$R_{\rm C}$	980523.190	NE,NH	Jau546	
10.4889	25.74	0.25	$R_{\rm C}$	980530.003	NE,NH	Jau546	
59.9859	26.1	0.3	$R_{\rm C}$	980718.5	NE,NH	Hal517	
60.0019	26.0	0.30	$R_{\rm C}$	980718.516	NE,NH	Vrb528	
65.4859	26.05	0.22	$R_{\rm C}$	980724	NE,NH	Hal517	
65.8959	26.05	0.22	$R_{\rm C}$	980724.41	NE,NH	Vrb528	
750	27.4	0.2	$R_{\rm C}$	000607	NE,NH	Jau402	1,2
750	26	0.2	$R_{\rm C}$	000607	NE,NH	Jau402	1,3

Table 8—Continued

dt	mag	error	band	date	corrections	reference	remark
	19.06 19.81 22.06	0.37	CR CR CR	980519.863 980520.077 980520.964	NE,NH	Hal517 Hal517 Hal517	

Hal517 = Halpern, J. P. et al. 1999, ApJ, 517, L105

Jau402 = Jaunsen, A. O. et al. 2003, A&A, 402, 125

Jau546 = Jaunsen, A. O. et al. 2001, ApJ, 546, 127

Vrb528 = Vrba, F. J. et al. 2000, ApJ, 528, 254

Note. —

The GRB 980519 light curve presented in Jau546 contains several late upper limits that are not given in the data table, two in $I_{\rm c}$ (\approx 16 and \approx 40 days after the burst) and one in $R_{\rm c}$ (\approx 105 days after the burst).

- 1 = transformed from HST STIS 50CCD Clear filter
- 2 = part of merging system in which the GRB happened
- 3 = complete merging system, 1."88 aperature

Table 9. **GRB 980613**

dt	mag	error	band	date	corrections	reference	remark
0.688	22.81	0.15	R	980613.89	NE,NH	Hjo576	
0.688	23.19	0.20	R	980613.89	NE,CH	Hjo576	
0.7	> 20.5		R	980613.9	NE,NH	Cas102	
1.038	22.96	0.09	R	980614.24	NE,NH	Hjo576	
1.038	23.53	0.20	R	980614.24	NE,CH	Hjo576	
3.10	23.3		R	980616.30	NE,NH	Djo114	
3.10	24.5	0.5	R	980616.30	NE,CH	Djo117	
4.708	> 24.4		R	980617.91	NE,NH	Hjo576	
186.2	24.05	0.2	R	981217	NE,NH	Djo189	
7.656	23.17	0.08	$R_{\rm C}$	980620.858	NE,NH	Sok118	
39.80	23.58	0.1	$R_{\rm C}$	980723.00	NE,NH	Sok372	
2.8	> 21.0		r	980616.0	NE,NH	Ode105	
3.10	24.15	0.3	r	980616.30	NE,NH	Djo117	

Cas102 = Castro-Tirado, A. J. et al. 1998, GCN 102

Djo114 = Djorgovski, S. G. et al. 1998, GCN 114

Djo117 = Djorgovski, S. G. et al. 1998, GCN 117

Djo189 = Djorgovski, S. G. et al. 1999, GCN 189

Hjo576 = Hjorth, J. et al. 2002, ApJ, 576, 113

Ode105 = Odewahn, S. et al. 1998, GCN 105

Sok118 = Sokolov, V. V. et al. 1998, GCN 118

Sok372 = Sokolov, V. V. et al. 2001, A&A, 372, 438

Table 10. **GRB 980703**

dt	mag	error	band	date	corrections	reference	remark
0.9405	21.00	0.09	$R_{\rm C}$	980704.123	NE,NH	Cas511	
0.9835	21.04	0.06	$R_{\rm C}$	980704.166	NE,NH	Cas511	
1.0055	21.13	0.05	$R_{\rm C}$	980704.188	NE,NH	Cas511	
1.2355	21.17	0.12	$R_{\rm C}$	980704.418	NE,NH	Cas511	
1.2505	21.35	0.11	$R_{\rm C}$	980704.433	NE,NH	Cas511	
1.2655	21.22	0.10	$R_{\rm C}$	980704.448	NE,NH	Cas511	
1.2945	21.34	0.2	$R_{\rm C}$	980704.477	NE,NH	Cas511	
1.2975	21.28	0.18	$R_{\rm C}$	980704.48	NE,NH	Blo508	
1.8775	> 21	0	$R_{\rm c}$	980705.06	NE,NH	Bar133	
2.1565	21.84	0.08	$R_{\rm C}$	980705.339	NE,NH	Vre523	
2.2995	21.83	0.32	$R_{\rm C}$	980705.482	NE,NH	Blo508	
2.2995	21.8	0.3	$R_{\rm C}$	980705.482	NE,NH	Cas511	
2.8775	> 21	0	$R_{\rm C}$	980706.06	NE,NH	Bar133	
2.9545	22.01	0.11	$R_{\rm C}$	980706.137	NE,NH	Cas511	
3.4245	22.06	0.1	$R_{\rm C}$	980706.607	NE,NH	Blo508	
3.4245	22.04	0.2	$R_{\rm C}$	980706.607	NE,NH	Cas511	
3.9805	22.21	0.09	$R_{\rm C}$	980707.163	NE,NH	Cas511	
4.0225	22.6	0.2	$R_{\rm C}$	980707.205	NE,NH	Cas511	
4.4175	21.9	0.3	$R_{\rm C}$	980707.6	NE,NH	Djo139	1
7.3475	22.44	0.1	$R_{\rm C}$	980710.53	NE,NH	Blo508	
15.3675	22.63	0.1	$R_{\rm C}$	980718.55	NE,NH	Blo508	
16.9895	22.49	0.04	$R_{\rm C}$	980720.172	NE,NH	Cas511	
16.9895	22.40	0.07	$R_{\rm C}$	980720.172	NE,NH	Hol371	
20.8875	22.30	0.08	$R_{\rm C}$	980724.06	CE,NH	Sok372	
21.8275	22.43	0.08	$R_{\rm C}$	980725.01	NE,NH	Cas511	
551	22.57	0.09	$R_{\rm C}$	000105	NE,NH	Hol371	
713	22.8	0.3	$R_{\rm C}$	000615	NE,NH	Blo702	2

 $\mathrm{Bar}133=\mathrm{Bartolini},$ C. et al. 1998, GCN 133

Blo508 = Bloom, J. S. et al. 1998, ApJ, 508, L21

Blo702 = Bloom, J. S. et al. 2000, GCN 702

Cas511 = Castro-Tirado, A. J. et al. 1999, ApJ, 511, L85

Djo139 = Djorgovski, S. G. et al. 1998, GCN 139

Hol371 = Holland, S. et al. 2001, A&A, 371, 52

Sok372 = Sokolov, V. V. et al. 2001, A&A, 372, 438

Vre523 = Vreeswijk, P. M. et al. 1999, ApJ, 523, 171

Note. —

1 =derived from spectrum

2 =converted from HST STIS 50CCD Clear measurement

Table 11. **GRB 990123**

dt	mag	error	band	date	corrections	reference	remark
0.3484	19.10	0.15	$R_{\rm C}$	990123.756	NE,NH	Cas283	
0.5194	19.42	0.17	$R_{\rm c}$	990123.927	NE,NH	Cas283	
0.5504	19.69	0.06	$R_{\rm C}$	990123.958	NE,NH	Cas283	
0.5624	19.58	0.14	$R_{\rm C}$	990123.970	NE,NH	Gal398	
0.5924	19.61	0.03	$R_{\rm C}$	990124.000	NE,NH	Sag27	
0.6544	19.94	0.13	$R_{\rm C}$	990124.062	NE,NH	Gal398	
0.6734	20.08	0.11	$R_{\rm C}$	990124.081	NE,NH	Gal398	
0.6884	19.89	0.04	$R_{\rm C}$	990124.096	NE,NH	Cas283	
0.6914	19.88	0.04	$R_{\rm C}$	990124.099	NE,NH	Cas283	
0.7024	20.14	0.14	$R_{\rm C}$	990124.110	NE,NH	Gal398	
0.7084	20.02	0.09	$R_{\rm C}$	990124.116	NE,NH	Gal398	
0.7344	19.99	0.07	$R_{\rm C}$	990124.142	NE,NH	Cas283	
0.7584	20.07	0.02	$R_{\rm C}$	990124.166	NE,NH	Cas283	
0.7624	20.05	0.15	$R_{\rm C}$	990124.17	NE,NH	Lac7096	2
0.7904	20.12	0.06	$R_{\rm C}$	990124.198	NE,NH	Gal398	
0.8024	20.14	0.05	$R_{\rm C}$	990124.210	NE,NH	Gal398	
0.8084	20.14	0.10	$R_{\rm C}$	990124.216	NE,NH	Cas283	
0.8144	20.16	0.06	$R_{\rm C}$	990124.222	NE,NH	Gal398	
0.8563	> 19.5	0	$R_{\rm C}$	990124.2639	NE,NH	Cas283	
1.0324	20.4	0.25	$R_{\rm C}$	990124.4400	NE,NH	Off7098	2
1.0484	20.60	0.06	$R_{\rm C}$	990124.456	NE,NH	Gal398	
1.0491	20.4	0.25	$R_{\rm C}$	990124.4567	NE,NH	Off7098	2
1.0590	20.6	0.25	$R_{\rm C}$	990124.4666	NE,NH	Off7098	2
1.0694	20.55	0.04	$R_{\rm C}$	990124.477	NE,NH	Gal398	
1.0705	20.9	0.25	$R_{\rm C}$	990124.4781	NE,NH	Off7098	2
1.1074	20.57	0.04	$R_{\rm C}$	990124.515	NE,NH	Gal398	
1.1454	20.58	0.05	$R_{\rm C}$	990124.553	NE,NH	Gal398	
1.3894	20.84	0.30	$R_{\rm C}$	990124.797	NE,NH	Cas283	
1.5184	20.83	0.08	$R_{\rm C}$	990124.926	NE,NH	Cas283	
1.5324	20.83	0.05	$R_{\rm C}$	990124.940	NE,NH	Sag27	
1.6714	20.82	0.15	$R_{\rm C}$	990125.079	NE,NH	Gal398	
1.6974	20.95	0.16	$R_{\rm C}$	990125.105	NE,NH	Gal398	
1.7364	21.14	0.15	$R_{\rm C}$	990125.144	NE,NH	Cas283	

Table 11—Continued

dt	mag	error	band	date	corrections	reference	remark
1.7799	>21.0	0	$R_{\rm C}$	990125.1875	NE,NH	Cas283	
1.8737	> 20.5	0	$R_{\rm C}$	990125.2813	NE,NH	Cas283	
1.8914	21.18	0.11	$R_{\rm C}$	990125.299	NE,NH	Cas283	
2.4884	21.40	0.25	$R_{\rm C}$	990125.896	NE,NH	Cas283	
2.5324	21.34	0.15	$R_{\rm C}$	990125.940	NE,NH	Cas283	
2.7304	21.90	0.20	$R_{\rm C}$	990126.138	NE,NH	Cas283	
2.7754	21.87	0.10	$R_{\rm C}$	990126.183	NE,NH	Cas283	
4.1164	22.50	0.05	$R_{\rm C}$	990127.524	NE,NH	Cas283	
6.5612	> 22.5	0	$R_{\rm C}$	990129.9688	NE,NH	Cas283	
7.1124	23.01	0.24	$R_{\rm C}$	990130.52	NE,NH	Yad242	
11.1114	23.57	0.35	$R_{\rm C}$	990203.519	NE,NH	Gal398	
11.1324	23.55	0.24	$R_{\rm C}$	990203.54	NE,NH	Hal257	
14.1924	23.45	0.1	$R_{\rm C}$	990206.6	NE,NH	Vei253	
15.1054	23.59	0.15	$R_{\rm C}$	990207.513	NE,NH	Gal398	
16.0424	23.62	0.05	$R_{\rm C}$	990208.45	NE,NH	Fru519	
16.0524	24.00	0.15	$R_{\rm C}$	990208.460	NE,NH	Gal398	
16.1924	23.41	0.1	$R_{\rm C}$	990208.6	NE,NH	Vei260	
16.83083	25.03	0.10	$R_{\rm C}$	990209.23847	CE,CH	Hol344	1
22.0924	23.77	0.10	$R_{\rm C}$	990214.50	NE,NH	Hal257	
32.6	> 18.3	0	$R_{\rm C}$	990225	NE,NH	Hen307	
37.6	> 18.3	0	$R_{\rm C}$	990302	NE,NH	Hen307	
38.6	> 18.3	0	$R_{\rm C}$	990303	NE,NH	Hen307	
39.6	> 18.3	0	$R_{\rm C}$	990304	NE,NH	Hen307	
40.6	> 18.3	0	$R_{\rm C}$	990305	NE,NH	Hen307	
44.6	> 18.3	0	$R_{\rm C}$	990309	NE,NH	Hen307	
45.6	> 18.3	0	$R_{\rm C}$	990310	NE,NH	Hen307	
51.6	> 18.3	0	$R_{\rm C}$	990316	NE,NH	Hen307	
55.6	> 18.3	0	$R_{\rm C}$	990320	NE,NH	Hen307	
56.6	> 18.3	0	$R_{\rm C}$	990321	NE,NH	Hen307	
57.6	> 18.3	0	$R_{\rm C}$	990322	NE,NH	Hen307	
58.6	> 18.3	0	$R_{\rm C}$	990323	NE,NH	Hen307	
64.6	> 18.3	0	$R_{\rm C}$	990329	NE,NH	Hen307	
65.6	> 18.3	0	$R_{\rm C}$	990330	NE,NH	Hen307	

Table 11—Continued

dt	mag	error	band	date	corrections	reference	remark
66.6	>18.3	0	$R_{\rm C}$	990331	NE,NH	Hen307	
166.4324	24.51	0.14	$R_{\rm C}$	990708.84	NE,NH	Sok372	
1215	24.08	0.17	$R_{\rm C}$	010422	NE,NH	AZ	
0.0002856	11.70	0.07	CR	990123.4079	NE,NH	Ake398	
0.0005773	8.86	0.02	CR	990123.4082	NE,NH	Ake398	
0.0008700	9.97	0.03	CR	990123.4085	NE,NH	Ake398	
0.0018475	11.86	0.13	CR	990123.4094	NE,NH	Ake398	
0.0036910	13.07	0.04	CR	990123.4113	NE,NH	Ake398	
0.0056038	13.81	0.07	CR	990123.4132	NE,NH	Ake398	
0.0075167	14.28	0.12	CR	990123.4151	NE,NH	Ake398	
0.0290493	> 15.6	0	CR	990123.4366	NE,NH	Ake398	
0.0640507	> 16.1	0	CR	990123.4716	NE,NH	Ake398	
0.629398	19.68	0.4	CR	990124.037037	NE,NH	Mau220	
0.644780	19.67	0.4	CR	990124.052419	NE,NH	Mau220	
0.649595	20.02	0.4	CR	990124.057234	NE,NH	Mau220	
0.654248	19.79	0.4	CR	990124.061887	NE,NH	Mau220	
0.658900	19.71	0.4	CR	990124.066539	NE,NH	Mau220	
0.663553	19.44	0.4	CR	990124.071192	NE,NH	Mau220	
0.668206	20.4	0.4	CR	990124.075845	NE,NH	Mau220	
0.672859	19.92	0.4	CR	990124.080498	NE,NH	Mau220	
0.677511	20.05	0.4	CR	990124.08515	NE,NH	Mau220	
0.686817	20.25	0.4	CR	990124.094456	NE,NH	Mau220	
0.691470	20.15	0.4	CR	990124.099109	NE,NH	Mau220	
0.705428	19.65	0.4	CR	990124.113067	NE,NH	Mau220	
0.710092	19.82	0.4	CR	990124.117731	NE,NH	Mau220	
0.714734	20.22	0.4	CR	990124.122373	NE,NH	Mau220	
0.719386	20.53	0.4	CR	990124.127025	NE,NH	Mau220	
0.724039	20.32	0.4	CR	990124.131678	NE,NH	Mau220	
0.728692	20.49	0.4	CR	990124.136331	NE,NH	Mau220	
0.733345	20.15	0.4	CR	990124.140984	NE,NH	Mau220	
0.737998	19.98	0.4	CR	990124.145637	NE,NH	Mau220	
0.742650	20.06	0.4	CR	990124.150289	NE,NH	Mau220	

Table 11—Continued

dt	mag	error	band	date	corrections	reference	remark
0.747303	20.44	0.4	CR	990124.154942	NE,NH	Mau220	
0.751956	20.42	0.4	CR	990124.159595	NE,NH	Mau220	
0.756609	20.03	0.4	CR	990124.164248	NE,NH	Mau220	
0.761261	20.11	0.4	CR	990124.1689	NE,NH	Mau220	
0.770567	20.23	0.4	CR	990124.178206	NE,NH	Mau220	
0.775220	20.06	0.4	CR	990124.182859	NE,NH	Mau220	
0.793437	20.36	0.4	CR	990124.201076	NE,NH	Mau220	
0.1694	18.65	0.04	r	990123.577	NE,NH	Kul398	
0.5504	20.00	0.05	r	990123.958	NE,NH	Kul398	
0.7724	20.39	0.15	r	990124.18	NE,NH	Kul398	
1.1394	20.93	0.2	r	990124.547	NE,NH	Kul398	
1.5264	21.22	0.08	r	990124.934	NE,NH	Kul398	
1.7324	21.37	0.15	r	990125.14	NE,NH	Kul398	
2.5324	21.73	0.12	r	990125.940	NE,NH	Kul398	
2.7464	22.09	0.10	r	990126.154	NE,NH	Kul398	
7.1124	23.28	0.18	r	990130.52	NE,NH	Kul398	
11.1324	23.88	0.24	r	990203.54	NE,NH	Kul398	
16.6444	24.12	0.10	r	990209.052	NE,NH	Kul398	
17.2464	23.91	0.07	r	990209.654	NE,NH	Kul398	
22.0924	24.10	0.10	r	990214.50	NE,NH	Kul398	

Ake398 = Akerlof, C. et al. 1999, Nature, 398, 400

AZ = Zeh, A. et al., unpublished

Cas283 = Castro-Tirado, A. J. et al. 1999, Science, 283, 2069

 $Fru519 = Fruchter, \, A. \, S. \, et \, al. \, \, 1999, \, ApJ, \, 519, \, L13$

Gal398 = Galama, T. J. et al. 1999, Nature, 398, 394

 $\mathrm{Hal}257=\mathrm{Halpern},\,\mathrm{J}.$ P. et al. 1999, GCN 257

Hen307 = Henden, A. et al. 1999, GCN 307

Hol344 = Holland, S. et al. 1999, A&A, 344, L67

Kul398 = Kulkarni, S. R. et al. 1999, Nature, 398, 389

Lac7096 = Lachaume, R. et al. 1999, IAUC 7096

Mau220 = Maury, A. et al. 1999, GCN 220

Off7098 = Offutt, W. et al. 1999, IAUC 7098

Sag27 = Sagar, R. et al. 1999, BASI, 27, 3

Sok372 = Sokolov, V. V. et al. 2001, A&A, 372, 438

Vei253 = Veillet, C. et al. 1999, GCN 253

Vei260 = Veillet, C. et al. 1999, GCN 260

Yad242 = Yadigaroglu, I. A. et al. 1999, GCN 242

Note. —

- 1 = Transformed from HST STIS 50CCD Clear image
- 2 = Dimmed by 0.6 mag according to comment of B. A. Skiff, IAUC 7098

Table 12. **GRB 990308**

dt	mag	error	band	date	corrections	reference	remark
0.13931 0.14465	18.14 18.22	0.06 0.05	R R	990308.35814 990308.36348	NE,NH NE,NH	Sch524 Sch524	
81.8 95.8	>22.9 >25.4		R R	990529 990612	NE,NH NE,NH	Sch524 Sch524	
102.8 468	>25.7 29.4	0.4	R R	990619 000619	NE,NH NE,NH	Sch524 Jau402	1

Jau402 = Jaunsen, A. O. et al. 2003, A&A, 402, 125Sch524 = Schaefer, B. E. et al. 1999, ApJ, 524, L103

Note. —

1 = most probable host galaxy, transformed from HST STIS 50CCD Clear filter

Table 13. **GRB 990510**

dt	mag	error	band	date	corrections	reference	remark
0.1466	17.84	0.02	V	990510.514	NE,NH	Har523	
0.1546	17.88	0.02	V	990510.522	NE,NH	Har 523	
0.1616	17.95	0.01	V	990510.529	NE,NH	Har 523	
0.4076	18.84	0.06	V	990510.775	NE,NH	Har 523	
0.4156	18.90	0.08	V	990510.783	NE,NH	Har 523	
0.4236	18.98	0.05	V	990510.791	NE,NH	Har 523	
0.6116	19.23	0.04	V	990510.979	NE,NH	Har 523	
0.6436	19.39	0.05	V	990511.011	NE,NH	Har523	
0.64455	19.414	0.020	V	990511.01198	NE,NH	Sta522	
0.64985	19.404	0.018	V	990511.01728	NE,NH	Sta522	
0.67926	19.444	0.013	V	990511.04669	NE,NH	Pie316	
0.68075	19.486	0.022	V	990511.04818	NE,NH	Sta522	
0.70253	19.496	0.014	V	990511.06996	NE,NH	Pie316	
0.71395	19.517	0.020	V	990511.08138	NE,NH	Sta522	
0.72378	19.508	0.012	V	990511.09121	NE,NH	Pie316	
0.74345	19.559	0.022	V	990511.11088	NE,NH	Sta522	
0.74538	19.543	0.015	V	990511.11281	NE,NH	Pie316	
0.76695	19.648	0.019	V	990511.13438	NE,NH	Sta522	
0.76748	19.582	0.014	V	990511.13491	NE,NH	Pie316	
0.78834	19.593	0.016	V	990511.15577	NE,NH	Pie316	
0.79035	19.637	0.021	V	990511.15778	NE,NH	Sta522	
0.80936	19.652	0.013	V	990511.17679	NE,NH	Pie316	
0.81345	19.703	0.020	V	990511.18088	NE,NH	Sta522	
0.83685	19.707	0.025	V	990511.20428	NE,NH	Sta522	
0.83939	19.673	0.014	V	990511.20682	NE,NH	Pie316	
0.85973	19.738	0.016	V	990511.22716	NE,NH	Pie316	
0.8801	19.742	0.016	V	990511.24753	NE,NH	Pie316	
0.88335	19.856	0.026	V	990511.25078	NE,NH	Sta522	
0.90047	19.8	0.018	V	990511.26790	NE,NH	Pie316	
0.91045	19.844	0.023	V	990511.27788	NE,NH	Sta522	
0.92082	19.832	0.017	V	990511.28825	NE,NH	Pie316	
0.93785	19.901	0.034	V	990511.30528	NE,NH	Sta522	
0.94146	19.819	0.018	V	990511.30889	NE,NH	Pie316	

Table 13—Continued

dt	mag	error	band	date	corrections	reference	remark
0.95855	19.866	0.029	V	990511.32598	NE,NH	Sta522	
0.96185	19.889	0.019	V	990511.32928	NE,NH	Pie316	
0.97935	19.929	0.032	V	990511.34678	NE,NH	Sta522	
0.99985	20.050	0.039	V	990511.36728	NE,NH	Sta522	
1.0151	19.962	0.028	V	990511.38253	NE,NH	Pie316	
1.032	19.961	0.028	V	990511.39943	NE,NH	Pie316	
1.0489	20.044	0.029	V	990511.41633	NE,NH	Pie316	
1.1406	20.11	0.09	V	990511.508	NE,NH	Har 523	
1.1446	20.01	0.08	V	990511.512	NE,NH	Har 523	
1.1486	20.06	0.07	V	990511.516	NE,NH	Har 523	
1.59625	20.762	0.059	V	990511.96368	NE,NH	Sta522	
1.60455	20.769	0.045	V	990511.97198	NE,NH	Sta522	
1.62746	20.715	0.04	V	990511.99489	NE,NH	Pie316	
1.65851	20.755	0.029	V	990512.02594	NE,NH	Pie316	
1.77258	20.876	0.029	V	990512.14001	NE,NH	Pie316	
1.7786	20.89	0.07	V	990512.146	NE,NH	Har523	
1.80775	20.962	0.051	V	990512.17518	NE,NH	Sta522	
1.81675	20.999	0.052	V	990512.18418	NE,NH	Sta522	
1.89411	21.014	0.067	V	990512.26154	NE,NH	Pie316	
1.98838	21.116	0.058	V	990512.35581	NE,NH	Pie316	
1.9996	21.22	0.14	V	990512.367	NE,NH	Har523	
2.00305	21.194	0.099	V	990512.37048	NE,NH	Sta522	
2.02568	21.049	0.18	V	990512.39311	NE,NH	Pie316	
3.00361	21.864	0.082	V	990513.37104	NE,NH	Pie316	
3.66192	22.413	0.057	V	990514.02935	NE,NH	Pie316	
3.86455	22.461	0.049	V	990514.23198	NE,NH	Pie316	
4.74975	23.106	0.112	V	990515.11718	NE,NH	Pie316	
5.861	23.39	0.04	V	990516.731	NE,NH	Beu352	
7.997	24.16	0.06	V	990518.867	NE,NH	Beu352	
28.7325	27.0	0.2	V	990608.1	NE,NH	Fru386	1
38.5326	27.8	0.3	V	990617.9	NE,NH	Fru386	1
354	28.5	0.5	V	000429	NE,NH	Blo756	1
354	28.0	0.3	V	000429	NE,NH	Fru757	1

Table 13—Continued

dt mag error band date corrections reference remark	dt	mag	error	band	date	corrections	reference	remark
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References. —

Beu352 = Beuermann, K. et al. 1999, A&A, 352, L26

Blo756 = Bloom, J. S. et al. 2000, GCN 756

Fru386 = Fruchter, A. et al. 1999, GCN 386

Fru757 = Fruchter, A. et al. 2000, GCN 757

Har523 = Harrison, F. A. et al. 1999, ApJ, 523, L121

Pie316 = Pietrzynski, G. et al. 1999, GCN 316

(http://www.astrouw.edu.pl/~ogle/ogle2/GRB990510.html)

Sta522 = Stanek, K. Z. et al. 1999, ApJ, 522, L39

Note. —

Hjorth, J. 1999 (GCN # 320) report 31 R_c images with the Danish 1.54m telescope and present their light curve on a webpage but do not give the data points.

1 = converted from HST STIS 50CCD Clear measurements

Table 14. **GRB 990705**

dt	mag	error	band	date	corrections	reference	remark
0.7483	16.57 18.38 >19.9	0.05	H H H	990705.945 990706.416 990706.955	NE,NH	Mas354 Mas354 Mas354	

Mas354 = Masetti, N. et al. 2000, A&A, 354, 473

Table 15. **GRB 990712**

dt	mag	error	band	date	corrections	reference	remark
0.176	19.349	0.019	$R_{\rm C}$	990712.873	NE,NH	Sah540	
0.432	20.175	0.011	$R_{\rm C}$	990713.129	NE,NH	Sah540	
0.454	20.183	0.009	$R_{\rm C}$	990713.151	NE,NH	Sah540	
0.477	20.251	0.085	$R_{\rm C}$	990713.174	NE,NH	Sah540	
0.631	20.470	0.10	$R_{\rm C}$	990713.328	NE,NH	Sah540	
0.686	20.533	0.016	$R_{\rm C}$	990713.383	NE,NH	Sah540	
0.698	20.460	0.057	$R_{\rm C}$	990713.395	NE,NH	Sah540	
1.053	20.857	0.088	$R_{\rm C}$	990713.750	NE,NH	Sah540	
1.430	20.968	0.025	$R_{\rm C}$	990714.127	NE,NH	Sah540	
1.590	20.991	0.040	$R_{\rm C}$	990714.287	NE,NH	Sah540	
1.986	21.490	0.27	$R_{\rm C}$	990714.683	NE,NH	Sah540	
2.067	21.201	0.123	$R_{\rm C}$	990714.764	NE,NH	Sah540	
3.706	21.420	0.050	$R_{\rm C}$	990716.403	NE,NH	Sah540	
7.724	21.550	0.050	$R_{\rm C}$	990720.421	NE,NH	Sah540	
20.836	21.584	0.036	$R_{\rm C}$	990802.533	NE,NH	Sah540	
30.535	21.650	0.030	$R_{\rm C}$	990812.232	NE,NH	Sah540	
34.623	21.750	0.060	$R_{\rm C}$	990816.320	NE,NH	Sah540	
34.748	21.779	0.041	$R_{\rm C}$	990816.445	NE,NH	Sah540	
47.706	21.87	0.12	$R_{\rm C}$	990829.403	NE,NH	Hjo534	
47.706	25.43	0.20	$R_{\rm C}$	990829.403	NE,CH	Hjo534	
47.706	24.35	0.15	$R_{\rm C}$	990829.403	NE,CH	Fru752	
87	21.92	0.08	$R_{\rm C}$	991007	NE,NH	Hjo534	
123	21.91	0.05	$R_{\rm C}$	991112	NE,NH	Hjo534	
287	21.95	0.15	$R_{\rm C}$	000424	NE,NH	Fru752	
412.3	21.84	0.02	$R_{\scriptscriptstyle C}$	000915	NE,NH	Chr413	1

Fru752 = Fruchter, A. et al. 2000, GCN 752

Hjo534 = Hjorth, J. et al. 2000, ApJ, 534, L147

Sah540 = Sahu, K. C. et al. 2000, ApJ, 540, 74

Note. —

 $1={\rm date}$ given only as "September 2000" - middle of the month assumed

Table 16. **GRB 991208**

dt	mag	error	band	date	corrections	reference	remark
0.0001157	>4	0	$R_{\rm c}$	991208.1917824	NE,NH	Cas370	
2.0785	18.7	0.1	$R_{\rm C}$	991210.2708	NE,NH	Cas370	
3.0188	19.60	0.03	$R_{\rm C}$	991211.2111	NE,NH	Cas370	
3.0584	19.61	0.04	$R_{\rm C}$	991211.2507	NE,NH	Cas370	
3.0869	19.70	0.08	$R_{\rm C}$	991211.2792	NE,NH	Cas370	
4.0258	20.0	0.3	$R_{\rm C}$	991212.2181	NE,NH	Cas370	
4.0577	19.9	0.5	$R_{\rm C}$	991212.2500	NE,NH	Cas370	
4.0681	20.37	0.05	$R_{\rm C}$	991212.2604	NE,NH	Cas370	
4.0959	20.0	0.3	$R_{\rm C}$	991212.2882	NE,NH	Cas370	
4.3277	20.5	0.1	$R_{\rm C}$	991212.52	NE,NH	Gar456	
5.0681	20.89	0.04	$R_{\rm C}$	991213.2604	NE,NH	Cas370	
5.0987	20.8	0.3	$R_{\rm C}$	991213.2910	NE,NH	Cas370	
5.3377	20.92	0.06	$R_{\rm C}$	991213.53	NE,NH	Hal458	
5.9477	21.6	0.3	$R_{\rm C}$	991214.14	NE,NH	Dod461	
6.0785	21.43	0.04	$R_{\rm C}$	991214.2708	NE,NH	Cas 370	
6.0924	21.40	0.10	$R_{\rm C}$	991214.2847	NE,NH	Cas370	
7.0785	21.97	0.08	$R_{\rm C}$	991215.2708	NE,NH	Cas 370	
27.3402	> 23.0	0	$R_{\rm C}$	000103.5319	NE,NH	Cas370	
28.0369	23.23	0.13	$R_{\rm C}$	000105.2292	NE,NH	Cas370	
28.0375	> 23.5	0	$R_{\rm C}$	000104.2292	NE,NH	Cas370	
37.0180	> 23.1	0	R_{c}	000113.2097	NE,NH	Cas370	
42.0681	23.65	0.13	R_{c}	000119.2604	NE,NH	Cas370	
114.766	24.27	0.15	$R_{\rm C}$	000331.9583	NE,NH	Cas370	
1190	23.94	0.30	$R_{\rm C}$	030311	NE,NH	AZ	

AZ = Zeh, A. et al., unpublished

Cas370 = Castro-Tirado, A. J. et al. 2001, A&A, 370, 398

Dod461 = Dodonov, S. et al. 1999, GCN 461

Gar456 = Garnavich, P. et al. 1999, GCN 456

 $\operatorname{Hal}458 = \operatorname{Halpern}, \, \operatorname{J.}$ P. et al. 1999, GCN 458

Table 17. **GRB 991216**

dt	mag	error	band	date	corrections	reference	remark
0.4485	18.49	0.05	$R_{\rm C}$	991217.12	NE,NH	Hal543	
0.4675	18.59	0.06	$R_{\rm c}$	991217.139	NE,NH	Hal543	
0.4765	18.63	0.02	$R_{\rm C}$	991217.148	NE,NH	Dol486	
0.4775	18.60	0.06	$R_{\rm C}$	991217.149	NE,NH	Hal543	
0.4805	18.64	0.02	$R_{\rm C}$	991217.152	NE,NH	Dol486	
0.4815	18.52	0.08	$R_{\rm C}$	991217.153	NE,NH	Hal543	
0.4815	18.7	0.2	$R_{\rm C}$	991217.153	NE,NH	How479	
0.4855	18.64	0.06	$R_{\rm C}$	991217.157	NE,NH	Hal543	1
0.4855	18.64	0.07	$R_{\rm C}$	991217.157	NE,NH	Dol486	1
0.4865	18.60	0.05	$R_{\rm C}$	991217.158	NE,NH	Hal543	
0.4905	18.7	0.2	$R_{\rm C}$	991217.162	NE,NH	How479	
0.4945	18.62	0.05	$R_{\rm C}$	991217.166	NE,NH	Hal543	
0.5015	18.7	0.2	$R_{\rm C}$	991217.173	NE,NH	How479	
0.5025	18.64	0.06	$R_{\rm C}$	991217.174	NE,NH	Hal543	
0.5075	18.73	0.05	$R_{\rm C}$	991217.179	NE,NH	Hen473	
0.5115	18.66	0.05	$R_{\rm C}$	991217.183	NE,NH	Hal543	
0.5345	18.70	0.06	$R_{\rm C}$	991217.206	NE,NH	Hal543	
0.5445	19.00	0.05	$R_{\rm C}$	991217.216	NE,NH	Hen473	
0.5455	18.78	0.05	$R_{\rm C}$	991217.217	NE,NH	Hal543	
0.5575	18.77	0.06	$R_{\rm C}$	991217.229	NE,NH	Hal543	
0.5885	18.86	0.05	$R_{\rm C}$	991217.260	NE,NH	Hal543	
0.6005	18.87	0.05	$R_{\rm C}$	991217.272	NE,NH	Hal543	
0.6215	19.06	0.05	$R_{\rm C}$	991217.293	NE,NH	Hen473	
0.6385	18.98	0.06	$R_{\rm C}$	991217.310	NE,NH	Hal543	
0.6545	19.01	0.06	$R_{\rm C}$	991217.326	NE,NH	Hal543	
0.6685	18.99	0.05	$R_{\rm C}$	991217.340	NE,NH	Hal543	
0.7025	19.12	0.06	$R_{\rm C}$	991217.374	NE,NH	Hal543	
0.7285	19.13	0.05	$R_{\rm C}$	991217.40	NE,NH	Hal543	
0.7525	19.17	0.05	$R_{\rm C}$	991217.424	NE,NH	Hal543	
0.7765	19.25	0.03	$R_{\rm C}$	991217.448	NE,NH	Dol486	
0.7795	19.23	0.06	$R_{\rm C}$	991217.451	NE,NH	Hal543	
0.7810	19.23	0.08	$R_{\rm C}$	991217.4525	NE,NH	Dol486	

Table 17—Continued

dt	mag	error	band	date	corrections	reference	remark
0.7835	19.28	0.03	$R_{\rm C}$	991217.455	NE,NH	Dol486	
0.9385	19.56	0.10	$R_{\rm c}$	991217.61	NE,NH	Gar 543	
0.9385	19.47	0.10	$R_{\rm C}$	991217.61	NE,NH	Hal543	
1.0615	19.88	0.13	$R_{\rm C}$	991217.733	NE,NH	Hal543	
1.1085	19.70	0.08	$R_{\rm C}$	991217.780	NE,NH	Sag28	
1.4385	20.11	0.10	$R_{\rm C}$	991218.11	NE,NH	Hal543	
1.5195	20.27	0.08	$R_{\rm C}$	991218.191	NE,NH	Hal543	
1.6485	20.39	0.10	$R_{\rm C}$	991218.32	NE,NH	Hal543	1
1.6485	20.41	0.05	$R_{\rm C}$	991218.32	NE,NH	Gar543	1
1.6485	20.35	0.05	$R_{\rm C}$	991218.32	NE,NH	Hal543	
1.7265	20.43	0.04	$R_{\rm C}$	991218.398	NE,NH	Hal543	
1.888	20.64	0.05	$R_{\rm C}$	991218.56	NE,NH	Gar543	
1.888	20.60	0.05	$R_{\rm C}$	991218.56	NE,NH	Hal543	
2.4285	20.89	0.10	$R_{\rm C}$	991219.10	NE,NH	Hal543	
3.6385	21.67	0.12	$R_{\rm C}$	991220.31	NE,NH	Hal543	
10.5455	23.28	0.07	$R_{\rm C}$	991227.217	NE,NH	Hal543	
12.7335	23.48	0.09	$R_{\rm C}$	991229.405	NE,NH	Hal543	
20.5095	24.21	0.12	$R_{\rm C}$	000106.181	NE,NH	Sch517	
27.5605	24.10	0.08	$R_{\rm C}$	000113.232	NE,NH	Hal543	
109.559	24.80	0.10	$R_{\rm C}$	000404.23	NE,NH	Hal543	
122.928	26.9	0.2	$R_{\rm c}$	000417.6	NE,NH	Vre751	2
122.928	>27.6		$R_{\rm C}$	000417.6	NE,CH	Vre751	

Dol486 = Dolan, C. et al. 1999, GCN 486

Gar543 = Garnavich, P. M. et al. 2000, ApJ, 543, 61

Hal543 = Halpern, J. P. et al. 2000, ApJ, 543, 697

Hen473 = Henden, A. et al. 1999, GCN 473

How479 = Howell, D. A. et al. 1999, GCN 479

Sag28 = Sagar, R. et al. 2000, BASI, 28, 15

 $\begin{array}{l} Sch517 = Schaefer, \, B. \, E. \, et \, al. \, 2000, \, GCN \, 517 \\ Vre751 = Vreeswijk, \, P. \, M. \, et \, al. \, 2000, \, GCN \, 751 \end{array}$

Note. —

1 = different measurements

2 = converted from HST STIS CL and LP measurement, 0.4 aperature

Table 18. **GRB 000131**

dt	mag	error	band	date	corrections	reference	remark
	23.26 24.35 25.13 >25.70	0.04 0.14 0.19	R R R		,	And364 And364 And364	

And364 = Andersen, M. I. et al. 2000, A&A, 364, L54

Note. —

GCN 1133 (Bloom, J. S. et al. 2001) concerns HST detection of the host 565 days after the burst in F606W and F814W filters. No magnitude is given. Results presented at a conference (Fox, D. B. et al. 2002, Bibliographic Code: 2002APS..APRN17050F) are not accessible.

Table 19. **GRB 000301C**

1,			1 . 1	1. (. C.	1
dt	mag	error	band	date	corrections	reference	remark
1.5189	20.42	0.06	$R_{\rm c}$	000302.93	NE,NH	Sag29	
1.5192	20.42	0.04	R_{c}	000302.9303	NE,NH	Mas359	
1.550	20.02	0.03	$R_{\rm C}$	000302.9609	NE,NH	Rho546	
1.5509	20.02	0.028	$R_{\rm C}$	000302.9618	NE,NH	Bha545	
1.7291	20.09	0.04	$R_{\rm C}$	000303.14	NE,NH	Jen370	
1.7347	20.25	0.05	$R_{\rm C}$	000303.1457	NE,NH	Mas359	
1.7591	20.15	0.04	$R_{\rm C}$	000303.17	NE,NH	Jen370	
1.7791	20.11	0.04	$R_{\rm C}$	000303.19	NE,NH	Jen370	
1.7797	20.16	0.05	$R_{\rm C}$	000303.1908	NE,NH	Mas359	
1.7957	20.25	0.05	$R_{\rm C}$	000303.2067	NE,NH	Mas359	
1.7991	20.14	0.04	$R_{\rm C}$	000303.21	NE,NH	Jen370	
1.8391	20.16	0.04	$R_{\rm C}$	000303.25	NE,NH	Jen370	
2.0991	20.27	0.04	$R_{\rm C}$	000303.51	NE,NH	Rho546	
2.0991	20.28	0.05	$R_{\rm C}$	000303.51	NE,NH	Rho546	
2.0991	20.32	0.05	$R_{\rm C}$	000303.51	NE,NH	Rho546	
2.5189	20.53	0.06	$R_{\rm C}$	000303.93	NE,NH	Sag29	
2.5193	20.51	0.04	$R_{\rm C}$	000303.9304	NE,NH	Mas359	
2.5214	20.45	0.12	$R_{\rm C}$	000303.9323	NE,NH	Bha545	
2.5867	20.49	0.10	R_{c}	000303.9976	NE,NH	Bha545	
2.587	20.49	0.10	$R_{\rm C}$	000303.9979	NE,NH	Rho546	
2.6321	20.53	0.06	R_{c}	000304.0432	NE,NH	Mas359	
2.6691	20.613	0.06	$R_{\rm C}$	000304.080	NE,NH	Rho546	
2.7507	>20.25	0	R_{c}	000304.1617	NE,NH	Mas359	
2.9691	20.60	0.05	$R_{\rm C}$	000304.38	NE,NH	Rho546	
3.0091	20.61	0.06	$R_{\rm C}$	000304.42	NE,NH	Jen370	
3.0471	20.58	0.06	R_{c}	000304.458	NE,NH	Rho546	
3.0691	20.58	0.03	$R_{\rm C}$	000304.48	NE,NH	Jen370	
3.0791	20.54	0.04	$R_{\rm C}$	000304.49	NE,NH	Jen370	
3.0891	20.60	0.04	$R_{\rm C}$	000304.50	NE,NH	Jen370	
3.0891	20.65	0.04	$R_{\rm C}$	000304.50	NE,NH	Rho546	
3.4978	20.57	0.05	$R_{\rm C}$	000304.9087	NE,NH	Bha545	
3.498	20.58	0.05	R_{C}	000304.9089	NE,NH	Rho546	
3.7309	20.47	0.07	$R_{\rm C}$	000305.1419	NE,NH	Mas359	

Table 19—Continued

dt	mag	error	band	date	corrections	reference	remark
3.9791	20.61	0.05	$R_{\rm C}$	000305.39	NE,NH	Jen370	
4.2191	20.86	0.04	$R_{\rm c}$	000305.63	NE,NH	Rho546	
4.5484	21.14	0.06	$R_{\rm C}$	000305.9595	NE,NH	Mas359	
4.5491	21.18	0.07	$R_{\rm c}$	000305.96	NE,NH	Sag29	
4.7343	21.65	0.20	$R_{\rm C}$	000306.1454	NE,NH	Mas359	
4.8091	21.50	0.15	$R_{\scriptscriptstyle \mathrm{C}}$	000306.22	NE,NH	Rho546	
4.9791	21.43	0.26	$R_{\rm C}$	000306.39	NE,NH	Jen370	
5.5689	> 21.8	0	$R_{\rm C}$	000306.98	NE,NH	Sag29	
5.5691	> 21.6	0	$R_{\rm C}$	000306.9802	NE,NH	Mas359	
5.7243	21.68	0.15	$R_{\rm C}$	000307.1354	NE,NH	Mas359	
5.8091	21.59	0.07	$R_{\rm C}$	000307.22	NE,NH	Jen370	
6.2391	21.70	0.07	$R_{\rm C}$	000307.65	NE,NH	Rho546	
6.5189	21.95	0.10	$R_{\rm C}$	000307.93	NE,NH	Sag29	
6.5194	22.00	0.15	$R_{\rm C}$	000307.9305	NE,NH	Mas359	
6.7453	21.68	0.10	$R_{\rm C}$	000308.1564	NE,NH	Mas359	
6.7691	21.80	0.05	$R_{\rm C}$	000308.18	NE,NH	Jen370	
7.5390	22.04	0.20	$R_{\rm C}$	000308.9500	NE,NH	Mas359	
7.5390	22.13	0.10	$R_{\scriptscriptstyle \mathrm{C}}$	000308.95	NE,NH	Sag29	
7.7391	22.11	0.15	$R_{\rm C}$	000309.15	NE,NH	Jen370	
8.1091	22.32	0.09	$R_{\scriptscriptstyle \mathrm{C}}$	000309.52	NE,NH	Rho546	
9.9791	23.12	0.18	$R_{\scriptscriptstyle \mathrm{C}}$	000311.39	NE,NH	Jen370	
10.2191	23.02	0.10	$R_{\rm C}$	000311.63	NE,NH	Rho546	
11.0291	23.10	0.22	$R_{\scriptscriptstyle \mathrm{C}}$	000312.44	NE,NH	Jen370	
13.1891	23.82	0.10	$R_{\scriptscriptstyle \mathrm{C}}$	000314.60	NE,NH	Rho546	
33.4891	26.5	0.15	$R_{\rm C}$	000403.9	NE,NH	Rho546	
34.1892	> 26	0	$R_{\scriptscriptstyle \mathrm{C}}$	000404.6	NE,NH	Vei623	
48.59	27.9	0.15	$R_{\rm C}$	000419	NE,NH	Rho546	
48.59	> 27.8	0	$R_{\scriptscriptstyle \mathrm{C}}$	000419	NE,NH	Sok372	
360.589	28.0	0.3	$R_{\scriptscriptstyle \mathrm{C}}$	010225	NE,NH	Fru1063	1

 $\begin{array}{l} {\rm Bha545=Bhargavi,\,S.\,G.\,\,2000,\,ApJ,\,545,\,L77} \\ {\rm Fru1063=Fruchter,\,A.\,\,S.\,\,2001,\,GCN\,\,1063} \\ {\rm Jen370=Jensen,\,B.\,\,L.\,\,2001,\,A\&A,\,370,\,909} \\ {\rm Mas359=Masetti,\,N.\,\,2000,\,A\&A,\,359,\,L23} \\ {\rm Rho546=Rhoads,\,J.\,\,E.\,\,2001,\,ApJ,\,546,\,117} \\ {\rm Sag28=Sagar,\,R.\,\,2000,\,BASI,\,28,\,499} \\ {\rm Sok372=Sokolov,\,V.\,\,V.\,\,2001,\,A\&A,\,372,\,438} \\ {\rm Vei623=Veillet,\,C.\,\,2000,\,GCN\,\,623} \end{array}$

Note. —

 $1 = \text{Date given as } 010211 \text{ on http://www.ifa.au.dk/~hst/grb_hosts/data/grb000301C/index.html}$

Table 20. **GRB 000418**

dt	mag	error	band	date	corrections	reference	remark
2.48	21.63	0.04	$R_{\rm C}$	000420.89	NE,NH	Klo545	
2.53	> 20.5	0	$R_{\rm C}$	000420.94	NE,NH	Klo545	
2.738	21.66	0.12	$R_{\rm C}$	000421.15	CE,NH	Ber556	
2.74	21.77	0.12	$R_{\rm C}$	000421.15	NE,NH	Klo545	
3.45	22.01	0.14	$R_{\rm C}$	000421.86	NE,NH	Klo545	
7.904	22.65	0.20	$R_{\rm C}$	000426.316	CE,NH	Ber556	
7.91	22.74	0.20	$R_{\rm C}$	000426.32	NE,NH	Klo545	
8.848	22.77	0.23	$R_{\rm C}$	000427.26	CE,NH	Ber556	
8.85	22.84	0.23	$R_{\rm C}$	000427.26	NE,NH	Klo545	
9.758	22.97	0.06	$R_{\rm C}$	000428.170	CE,NH	Ber556	
9.888	22.86	0.09	$R_{\rm C}$	000428.3	CE,NH	Ber556	
9.89	23.05	0.31	$R_{\rm C}$	000428.3	NE,NH	Klo545	
10.001	23.05	0.05	$R_{\rm C}$	000428.413	CE,NH	Ber556	
10.848	22.95	0.11	$R_{\rm C}$	000429.26	CE,NH	Ber556	
13.868	23.19	0.12	$R_{\rm C}$	000502.28	CE,NH	Ber556	
13.90	23.20	0.13	$R_{\rm C}$	000502.31	NE,NH	Klo545	
14.85	23.50	0.16	$R_{\rm C}$	000503.26	NE,NH	Klo545	
18.01	23.57	0.10	$R_{\rm C}$	000506.42	NE,NH	Klo545	
20.48	23.39	0.05	$R_{\rm C}$	000508.89	NE,NH	Klo545	
21.41	23.46	0.21	$R_{\rm C}$	000509.82	NE,NH	Klo545	
35.52	23.46	0.10	$R_{\rm C}$	000523.93	NE,NH	Klo545	
40.816	23.66	0.15	$R_{\rm C}$	000529.228	CE,NH	Ber556	
45.47	23.41	0.08	$R_{\rm C}$	000602.88	NE,NH	Klo545	
45.50	23.66	0.05	$R_{\rm C}$	000602.91	NE,NH	Klo545	
46.758	23.9	0.2	$R_{\rm C}$	000604.17	NE,NH	Met733	1
46.758	> 27.5	0	$R_{\rm C}$	000604.17	NE,CH	Fru1061	1
378.5801	23.39	0.05	$R_{\rm C}$	010331.992	CE,NH	Gor409	
1059.6	23.57	0.10	$R_{\scriptscriptstyle C}$	030314	NE,NH	AZ	

References. --

AZ = Zeh, A. et al., unpublished

Ber556 = Berger, E. et al. 2001, ApJ, 556, 556

Fru1061 = Fruchter, A. et al. 2001, GCN 1061

Gor 409 = Gorosabel, J. et al. 2003, A&A, 409, 123

Klo545 = Klose, S. et al. 2000, ApJ, 545, 271

Met733 = Metzger, M. et al. 2000, GCN 733;

Note. —

1 =converted from HST STIS 50CCD Clear measurement

Table 21. **GRB 000630**

dt	mag	error	band	date	corrections	reference	remark
0.85	23.00	0.30	$R_{\rm C}$	000630.87	NE,NH	Fyn369	
0.88	23.04	0.08	R_{c}	000630.90	NE,NH	Fyn369	
1.22	23.13	0.25	R_{c}	000701.24	NE,NH	Fyn369	
1.2726	23.47	0.13	R_{c}	000701.2926	NE,NH	Yos748	
1.3152	> 23.2	0	$R_{\rm C}$	000701.3352	NE,NH	Hal745	
1.86	24.05	0.16	$R_{\rm C}$	000701.88	NE,NH	Fyn369	
1.87	23.85	0.22	$R_{\rm C}$	000701.89	NE,NH	Fyn369	
3.89	24.67	0.14	$R_{\rm c}$	000703.91	NE,NH	Fyn369	
10.88	> 25.3	0	$R_{\rm C}$	000710.9	NE,NH	Fyn369	
25.88	>26.1	0	$R_{\rm C}$	000725.9	NE,NH	Fyn369	
355	26.68	0.2	$R_{\rm C}$	010619	NE,NH	Kap1069	

Fyn369 = Fynbo, J. U. et al. 2001, A&A, 369, 373

Hal745 = Halpern, J. P. et al. 2000, GCN 745

Kap1069 = Kaplan, D. L. et al. 2001, GCN 1069

Yos748 = Yost, S. et al. 2000, GCN 748

Table 22. **GRB 000911**

dt	mag	error	band	date	corrections	reference	remark
1.435	20.700	0.081	$R_{\rm C}$	000912.737	Pri573		
1.435	20.70	0.08	$R_{\rm C}$	000912.737	Laz378		
1.435	20.57	0.08	$R_{\rm C}$	000912.737	Mas438	1	
3.795	> 20.5	0	$R_{\rm C}$	000915.097	Ped815		
4.291	22.299	0.030	$R_{\rm C}$	000915.593	Pri573		
4.30	22.30	0.06	$R_{\rm C}$	000915.602	Laz378		
4.30	22.17	0.06	$R_{\rm C}$	000915.602	Mas438	1	
4.933	22.42	0.15	$R_{\rm C}$	000916.235	Mas438		
7.972	23.12	0.05	$R_{\rm C}$	000919.274	Mas438		
10.072	23.42	0.05	$R_{\rm C}$	000921.374	Mas438		
14.119	24.052	0.094	$R_{\rm C}$	000925.421	Pri573		
14.12	24.05	0.094	$R_{\rm C}$	000925.422	Laz378		
14.12	23.92	0.094	$R_{\rm C}$	000925.422	Mas438	1	
16.98	24.14	0.07	$R_{\rm C}$	000928.282	Laz378		
17.084	24.01	0.08	$R_{\rm C}$	000928.313	Mas438		
18.942	24.12	0.10	$R_{\rm C}$	000930.244	Mas438		
25.03	24.45	0.06	$R_{\rm C}$	001006.332	Laz378		
25.03	24.32	0.06	$R_{\rm C}$	001006.332	Mas438	1	
35.92	24.6	0.2	$R_{\rm C}$	001017.222	Laz378		
35.92	24.47	0.2	$R_{\rm C}$	001017.222	Mas438	1	
53.00	24.91	0.15	$R_{\rm C}$	001103.302	Laz378		
53.00	24.78	0.15	$R_{\rm C}$	001103.302	Mas438	1	
102.892	>24.2		$R_{\rm C}$	001222.194	Mas438		
111.9	25.4	0.1	$R_{\rm C}$	010101.202	Laz378		
111.9	25.27	0.1	$R_{\rm C}$	010101.202	Mas438	1	
111.919	25.414	0.119	$R_{\rm C}$	010101.221	Pri573		
338.357	25.27	0.15	$R_{\scriptscriptstyle \rm C}$	010815.659	Mas438		

 $Laz 378 = Lazzati,\, D.\,\, et\,\, al.\,\, 2001,\, A\&A,\, 378,\, 996$

Mas438 = Masetti, N. et al. 2005, A&A, 438, 841

Ped815 = Pedersen, H. et al. 2000, GCN 815

Pri573 = Price, P. A. et al. 2002, ApJ, 573, 85

Note. —

1 = Laz378 data transformed to Mas438 zero point:

 $\Delta mag(B) = 0.19 mag, \ \Delta mag(V) = 0.22 mag, \ \Delta mag(R_c) = 0.13 mag, \ \Delta mag(I_c) = 0.22 mag$

Table 23. **GRB 000926**

dt	mag	+error	-error	band	date	corrections	reference	remark
2.3778	21.23	0.03	0.03	R	000929.3075	NE,NH	Vei831	_
3.3778	22.10	0.04	0.04	\mathbf{R}	000930.3075	NE,NH	Vei831	
4.3296	22.71	0.04	0.04	\mathbf{R}	001001.2593	NE,NH	Vei831	
5.3329	23.13	0.08	0.08	\mathbf{R}	001002.2626	NE,NH	Vei831	
6.3007	23.45	0.10	0.10	\mathbf{R}	001003.2304	NE,NH	Vei831	
7.3203	23.73	0.15	0.15	R	001004.2500	NE,NH	Vei831	
0.925	19.326	0.015	0.015	R_{c}	000927.8547	NE,CH	Fyn373	
0.9297	19.343	0.011	0.011	$R_{\rm C}$	000927.8594	NE,CH	Fyn373	
0.9342	19.322	0.011	0.011	$R_{\rm C}$	000927.8639	NE,CH	Fyn373	
0.9354	19.329	0.034	0.034	$R_{\rm C}$	000927.8651	NE,NH	Fyn373	
0.9387	19.342	0.008	0.008	$R_{\rm C}$	000927.8684	NE,CH	Fyn373	
0.9432	19.349	0.011	0.011	$R_{\rm C}$	000927.8729	NE,CH	Fyn373	
0.9477	19.366	0.010	0.010	$R_{\rm C}$	000927.8774	NE,CH	Fyn373	
0.9523	19.349	0.010	0.010	$R_{\rm C}$	000927.8820	NE,CH	Fyn373	
0.9623	19.394	0.022	0.022	$R_{\rm C}$	000927.892	NE,NH	Fyn373	
0.9663	19.411	0.022	0.022	$R_{\rm C}$	000927.896	NE,NH	Fyn373	
0.9713	19.421	0.023	0.023	$R_{\rm C}$	000927.901	NE,NH	Fyn373	
0.9812	19.452	0.020	0.020	$R_{\rm C}$	000927.9109	NE,NH	Fyn373	
1.0361	19.538	0.011	0.011	$R_{\rm C}$	000927.9658	NE,CH	Fyn373	
1.0408	19.526	0.014	0.014	$R_{\rm C}$	000927.9705	NE,CH	Fyn373	
1.0453	19.567	0.015	0.015	$R_{\rm C}$	000927.9750	NE,CH	Fyn373	
1.0498	19.542	0.017	0.017	$R_{\rm C}$	000927.9795	NE,CH	Fyn373	
1.0543	19.553	0.023	0.023	$R_{\rm C}$	000927.9840	NE,CH	Fyn373	
1.1673	19.71	0.03	0.03	$R_{\rm C}$	000928.097	NE,NH	Fyn373	
1.2433	19.918	0.020	0.020	$R_{\rm C}$	000928.173	NE,NH	Pri549	
1.2483	19.890	0.019	0.019	$R_{\rm C}$	000928.178	NE,NH	Pri549	
1.2823	19.917	0.033	0.033	$R_{\rm C}$	000928.212	NE,NH	Pri549	
1.2913	19.902	0.062	0.062	$R_{\rm C}$	000928.221	NE,NH	Pri549	
1.7653	20.461	0.093	0.093	$R_{\rm C}$	000928.695	NE,NH	Pri549	
1.9059	20.723	0.025	0.025	$R_{\rm C}$	000928.8356	NE,CH	Fyn373	
1.9614	20.774	0.036	0.036	$R_{\rm C}$	000928.8911	NE,CH	Fyn373	

Table 23—Continued

dt	mag	+error	-error	band	date	corrections	reference	remark
2.0298	20.875	0.036	0.036	$R_{\rm C}$	000928.9595	NE,CH	Fyn373	
2.1803	20.94	0.04	0.04	$R_{\rm C}$	000929.110	NE,NH	Fyn373	
2.2083	20.95	0.04	0.04	$R_{\rm C}$	000929.138	NE,NH	Fyn373	
2.2163	21.05	0.04	0.04	$R_{\rm C}$	000929.146	NE,NH	Vrb819	
2.2253	20.985	0.054	0.054	$R_{\rm C}$	000929.155	NE,NH	Pri549	
2.2403	21.08	0.05	0.05	$R_{\rm C}$	000929.170	NE,NH	Fyn373	
2.2683	21.139	0.043	0.043	$R_{\rm C}$	000929.198	NE,NH	Pri549	
2.2743	21.028	0.064	0.064	$R_{\rm C}$	000929.204	NE,NH	Pri549	
2.2773	21.094	0.041	0.041	$R_{\rm C}$	000929.207	NE,NH	Pri549	
2.3133	21.118	0.083	0.083	$R_{\rm C}$	000929.243	NE,NH	Pri549	
2.6873	21.7	0.2	0.2	$R_{\rm C}$	000929.617	NE,NH	Sag29	
2.8223	21.55	0.15	0.15	$R_{\rm C}$	000929.752	NE,NH	Pri549	
2.9117	21.740	0.043	0.043	$R_{\rm C}$	000929.8414	NE,CH	Fyn373	
3.0181	21.897	0.083	0.083	$R_{\rm C}$	000929.9478	NE,CH	Fyn373	
3.2593	21.906	0.065	0.065	$R_{\rm C}$	000930.189	NE,NH	Pri549	
3.2863	22.103	0.057	0.057	$R_{\rm C}$	000930.216	NE,NH	Pri549	
3.9003	22.494	0.070	0.070	$R_{\rm C}$	000930.83	NE,CH	Fyn373	
4.2653	22.56	0.11	0.11	$R_{\rm C}$	001001.195	NE,NH	Pri549	
5.2343	23.26	0.19	0.19	$R_{\rm C}$	001002.164	NE,NH	Pri549	
5.2423	23.235	0.095	0.095	$R_{\rm C}$	001002.172	NE,NH	Pri549	
5.9103	23.514	0.153	0.153	$R_{\rm C}$	001002.84	NE,NH	Fyn373	
6.1833	23.402	0.063	0.063	$R_{\rm C}$	001003.113	NE,NH	Pri549	
10.357	0.398	0.029	0.029	$R_{\rm C}$	001007.35	CE,CH	Har 559	1
19.187	0.072	0.023	0.023	$R_{\rm C}$	001016.18	CE,CH	Har 559	1
28.217	0.034	0.022	0.022	$R_{\rm C}$	001025.21	CE,CH	Har 559	1
80.467	0.004	0.021	0.021	$R_{\rm C}$	001216.46	CE,CH	Har 559	1
234.757	25.19	0.17	0.17	$R_{\rm C}$	010519.75	NE,NH	Pri549	
235.2523	25.29	0.06	0.06	$R_{\rm C}$	010520.245	NE,NH	Cas 586	2
235.2523	24.83	0.07	0.07	$R_{\rm C}$	010520.245	NE,NH	Cas586	3
301	25.94	0.28	0.28	$R_{\scriptscriptstyle \mathrm{C}}$	010725	NE,NH	Fat30	4

Cas586 = Castro, S. et al. 2003, ApJ, 586, 129

Fat30 = Fatkhullin, T. A. et al. 2004, Astronomy Letters, 2004, Vol. 30, 283

Fyn373 = Fynbo, J. U. et al. 2001, A&A, 373, 796

Har559 = Harrison, F. A. et al. 2001, ApJ, 559, 123

Pri549 = Price, P. A. et al. 2001, ApJ, 549, L7

Sag29 = Sagar, R. et al. 2001, BASI, 29, 1

Vei831 = Veillet, C. et al. 2000, GCN 831

Vrb819 = Vrba, J. et al. 2000, GCN 819

Note. —

1 = converted from HST WFPC2 measurements, flux density in μ Jy

2 = converted from HST WFPC2 measurements, 2 pixel (0."25) radius around OT position

3 = converted from HST WFPC2 measurements, 5 pixel (0."625) radius around OT position

4 = re-reddened with $E_{(B-V)} = 0.024$

Table 24. **GRB 001007**

dt	mag	error	band	date	corrections	reference	remark
3.4825	20.3		R	001010.6900	NE,NH	Pri843	
3.9502	20.5	0.13	R	001011.1577	NE,NH	Cas 393	
4.1358	20.77	0.06	R	001011.3433	NE,NH	Cas 393	
5.0504	>20.30		R	001012.2579	NE,NH	Cas 393	
13.0327	>22.10		R	001020.2402	NE,NH	Cas 393	
18.1525	> 21.6		R	001025.3600	NE,NH	Pri862	
22.0754	23.98	0.17	R	001029.2829	NE,NH	Cas393	
25.9447	24	0.16	R	001102.1522	NE,NH	Cas 393	
39.9386	24.53	0.22	R	001116.1461	NE,NH	Cas393	
467.8631	24.84	0.15	R	020118.0706	NE,NH	Cas393	

 $\operatorname{Cas393} = \operatorname{Castro}$ Cerón, J. M. et al. 2002, A&A, 393, 445

 $\mathrm{Pri}843=\mathrm{Price},\,\mathrm{P.}$ A. et al. 2000, GCN 843

 $\mathrm{Pri}862=\mathrm{Price},\,\mathrm{P.}$ A. et al. 2000, GCN 862

Table 25. **GRB 001011**

dt	mag	error	band	date	corrections	reference	remark
0.3516 2.3644 158.7256 159.7313 161.7314	20.99 23.74 >24.3 >24.6 >24.5	0.05 0.23	R R R R	001012.0148 001014.0275 010419.3887 010420.3945 010422.3945	NE,NH NE,NH NE,NH NE,NH NE,NH	Gor384 Gor384 Gor384 Gor384	
189.513	25.38	0.25	R	010520.1762	NE,NH	Gor384	

 $\operatorname{Gor384} = \operatorname{Gorosabel},$ J. et al. 2002, A&A, 384, 11

Table 26. **GRB 010222**

dt	mag	+error	-error	band	date	corrections	reference	remark
0.1515	18.40	0.05	0.05	$R_{\rm C}$	010222.4595	NE,NH	Sta563	
0.1530	18.36	0.03	0.03	$R_{\scriptscriptstyle C}$	010222.4610	NE,NH	Sta563	
0.1615	18.40	0.03	0.03	$R_{\rm C}$	010222.4695	NE,NH	Sta563	
0.174	18.455	0.033	0.033	$R_{\scriptscriptstyle \rm C}$	010222.482	NE,NH	Gal587	
0.179	18.481	0.036	0.036	$R_{\rm C}$	010222.487	NE,NH	Gal587	
0.1960	18.589	0.040	0.040	$R_{\rm C}$	010222.5040	NE,NH	Wat53	
0.2000	18.4	0.1	0.1	$R_{\rm C}$	010222.508	NE,NH	Cow29	
0.2005	18.590	0.030	0.030	$R_{\rm C}$	010222.5085	NE,NH	Wat53	
0.2026	18.55	0.03	0.03	$R_{\rm C}$	010222.5106	NE,NH	Sta563	
0.2269	18.54	0.05	0.05	$R_{\rm C}$	010222.5349	NE,NH	Sta563	
0.2337	18.63	0.05	0.05	$R_{\rm C}$	010222.5417	NE,NH	Sta563	
0.2400	18.66	0.05	0.05	$R_{\rm C}$	010222.5480	NE,NH	Sta563	
0.2439	18.67	0.07	0.07	$R_{\rm C}$	010222.5519	NE,NH	Sta563	
0.3340	18.9	0.1	0.1	$R_{\rm C}$	010222.642	NE,NH	Cow29	
0.3374	18.984	0.038	0.038	$R_{\rm C}$	010222.6454	NE,NH	Wat53	
0.3456	18.991	0.042	0.042	$R_{\rm C}$	010222.6536	NE,NH	Wat53	
0.5667	19.57	0.13	0.13	$R_{\scriptscriptstyle \rm C}$	010222.8747	NE,NH	Oks30	
0.5851	19.646	0.087	0.087	$R_{\scriptscriptstyle \rm C}$	010222.8931	NE,NH	Cow29	
0.6030	19.48	0.02	0.02	$R_{\scriptscriptstyle \rm C}$	010222.911	NE,NH	Sag29	
0.6130	19.59	0.02	0.02	$R_{\rm C}$	010222.921	NE,NH	Sag29	
0.6220	19.66	0.02	0.02	$R_{\scriptscriptstyle \rm C}$	010222.930	NE,NH	Sag29	
0.6333	19.393	0.086	0.086	$R_{\rm C}$	010222.9413	NE,NH	Cow29	
0.6358	19.631	0.031	0.031	$R_{\scriptscriptstyle \rm C}$	010222.9438	NE,NH	Cow29	
0.64	19.387	0.098	0.098	$R_{\rm C}$	010222.948	NE,NH	Gal587	
0.651	19.567	0.082	0.082	$R_{\rm C}$	010222.959	NE,NH	Gal587	
0.6583	19.69	0.15	0.15	$R_{\rm C}$	010222.9663	NE,NH	Oks30	
0.6623	19.512	0.062	0.062	$R_{\rm C}$	010222.9703	NE,NH	Cow29	
0.6878	19.634	0.044	0.044	$R_{\rm C}$	010222.9958	NE,NH	Cow29	
0.6970	19.80	0.02	0.02	$R_{\rm C}$	010223.005	NE,NH	Sag29	
0.6976	19.747	0.029	0.029	R_{C}	010223.0056	NE,NH	Cow29	
0.7020	19.70	0.03	0.03	$R_{\scriptscriptstyle \rm C}$	010223.010	NE,NH	Sag29	
0.7059	19.765	0.029	0.029	$R_{\rm C}$	010223.0139	NE,NH	Cow29	
0.7480	19.75	0.05	0.05	$R_{\rm C}$	010223.056	NE,NH	Cow29	

Table 26—Continued

dt	mag	+error	-error	band	date	corrections	reference	remark
0.7542	19.92	0.17	0.17	$R_{\rm C}$	010223.0622	NE,NH	Oks30	
0.7549	19.75	0.05	0.05	$R_{\rm C}$	010223.0629	NE,NH	Mas374	
0.7550	19.79	0.04	0.04	$R_{\rm C}$	010223.063	NE,NH	Cow29	
0.7585	19.79	0.04	0.04	$R_{\rm C}$	010223.0665	NE,NH	Mas374	
0.764	19.676	0.053	0.053	$R_{\rm C}$	010223.072	NE,NH	Gal587	
0.8583	20.11	0.31	0.31	$R_{\rm C}$	010223.1663	NE,NH	Oks30	
0.9030	20.00	0.01	0.01	$R_{\rm C}$	010223.211	NE,NH	Cow29	
0.9037	20.00	0.01	0.01	$R_{\rm C}$	010223.2117	NE,NH	Mas374	
0.9110	20.01	0.01	0.01	$R_{\rm C}$	010223.219	NE,NH	Cow29	
0.9117	20.01	0.01	0.01	$R_{\rm C}$	010223.2197	NE,NH	Mas374	
0.9569	20.13	0.12	0.12	$R_{\rm C}$	010223.2649	NE,NH	Oro976	
0.9766	20.00	0.21	0.21	$R_{\rm C}$	010223.2846	NE,NH	Oro976	
0.9935	20.12	0.06	0.06	$R_{\rm C}$	010223.3015	NE,NH	Sta563	
1.0996	20.31	0.09	0.09	$R_{\rm C}$	010223.4076	NE,NH	Sta563	
1.1378	20.40	0.09	0.09	$R_{\rm C}$	010223.4458	NE,NH	Sta563	
1.5620	20.77	0.35	0.35	$R_{\rm C}$	010223.870	NE,NH	Sag29	
1.6295	20.870	0.057	0.057	$R_{\rm C}$	010223.9375	NE,NH	Cow29	
1.712	20.859	0.075	0.075	$R_{\rm C}$	010224.02	NE,NH	Gal587	
1.8190	20.89	0.09	0.09	$R_{\rm C}$	010224.127	NE,NH	Cow29	
1.8215	>21	0	0	$R_{\rm C}$	010224.1295	NE,NH	Val986	
1.8242	20.89	0.09	0.09	$R_{\rm C}$	010224.1322	NE,NH	Mas374	
1.9280	21.06	0.03	0.03	$R_{\rm C}$	010224.236	NE,NH	Cow29	
1.9287	21.06	0.03	0.03	$R_{\rm C}$	010224.2367	NE,NH	Mas374	
1.9310	21.05	0.02	0.02	$R_{\rm C}$	010224.239	NE,NH	Cow29	
1.9317	21.05	0.02	0.02	$R_{\rm C}$	010224.2397	NE,NH	Mas374	
2.6844	21.405	0.17	0.17	$R_{\rm C}$	010224.9924	NE,NH	Cow29	
2.777	21.607	0.129	0.129	$R_{\rm C}$	010225.085	NE,NH	Gal587	
2.9450	21.64	0.03	0.03	$R_{\rm C}$	010225.253	NE,NH	Cow29	
2.9457	21.64	0.03	0.03	$R_{\rm C}$	010225.2537	NE,NH	Mas374	
3.1389	21.73	0.17	0.17	$R_{\rm C}$	010225.4469	NE,NH	Sta563	
3.3209	21.875	0.015	0.015	$R_{\rm C}$	010225.6289	NE,NH	Wat53	
3.3337	21.758	0.032	0.032	$R_{\rm C}$	010225.6416	NE,NH	Wat53	
3.6875	21.99	0.13	0.13	$R_{\rm C}$	010225.9955	NE,NH	Cow29	
3.3337	21.758	0.032	0.032	$R_{\rm C}$	010225.6416	NE,NH	Wat53	

Table 26—Continued

dt	mag	+error	-error	band	date	corrections	reference	remark
4.6030	22.20	0.10	0.10	$R_{\rm C}$	010226.911	NE,NH	Sag29	
4.6305	22.229	0.077	0.077	$R_{\scriptscriptstyle \mathrm{C}}$	010226.9385	NE,NH	Cow29	
4.8310	22.11	0.25	0.25	$R_{\rm C}$	010227.139	NE,NH	Cow29	
4.8362	22.11	0.25	0.25	$R_{\scriptscriptstyle \mathrm{C}}$	010227.1442	NE,NH	Mas374	
4.9560	22.38	0.05	0.05	$R_{\rm c}$	010227.264	NE,NH	Cow29	
4.9581	22.38	0.05	0.05	$R_{\scriptscriptstyle \mathrm{C}}$	010227.2661	NE,NH	Mas374	
6.3450	22.73	0.10	0.10	$R_{\rm c}$	010228.653	NE,NH	Cow29	
6.442	22.818	0.065	0.065	$R_{\rm c}$	010228.75	NE,NH	Gal587	1
6.5934	>22.1	0	0	$R_{\rm C}$	010228.9014	NE,NH	Cow29	
6.6177	>22.1	0	0	$R_{\rm c}$	010228.9257	NE,NH	Cow29	
7.3200	22.96	0.10	0.10	$R_{\scriptscriptstyle \mathrm{C}}$	010301.628	NE,NH	Cow29	
7.6239	> 21.9	0	0	$R_{\rm c}$	010301.9319	NE,NH	Cow29	
8.16	23.19	0.15	0.15	$R_{\scriptscriptstyle \mathrm{C}}$	010302.468	NE,NH	Gal587	
8.3330	23.10	0.10	0.10	$R_{\rm c}$	010302.641	NE,NH	Cow29	
23.652	24.84	0.09	0.09	$R_{\rm c}$	010317.96	NE,NH	Gal587	1
24.5920	24.53	0.25	0.25	$R_{\rm c}$	010318.9	NE,NH	Sta563	
36.9371	25.1	0.2	0.2	$R_{\scriptscriptstyle \mathrm{C}}$	010331.2451	NE,NH	Mas374	
41.182	25.47	0.11	0.11	$R_{\scriptscriptstyle \mathrm{C}}$	010405.49	NE,NH	Gal587	1
71.232	25.75	0.13	0.13	$R_{\rm C}$	010504.54	NE,NH	Gal587	1
88.6920	> 24.4	0	0	$R_{\rm c}$	010522	NE,NH	Sal1082	
198.482	25.72	0.18	0.18	$R_{\rm c}$	010908.79	NE,NH	Gal587	1
198.482	26.42	0.27	0.21	$R_{\rm C}$	010908.79	NE,NH	Gal587	1,2
0.2260	17.80	0.3	0.3	CR	010222.534	NE,NH	Uem984	

Cow29 = Cowsik, R. et al. 2001, BASI, 29, 157

Gal587 = Galama, T. J. et al. 2003, ApJ 587, 135

Mas374 = Masetti, N. et al. 2001, A&A, 374, 382

 $\mathrm{Oks}30 = \mathrm{Oksanen}, \, \mathrm{A.}$ et al. 2002, JAAVSO Volume 30, 126

Oro976 = Orosz, J. A. et al. 2001, GCN 976

Sag29 = Sagar, R. et al. 2001, BASI, 29, 91

Sal1082 = Salamanca, I. et al. 2001, GCN 1082

Sta563 = Stanek, K. Z. et al. 2001, ApJ, 563, 592

Uem984 = Uemura, M. et al. 2001, GCN 984

Val986 = Valentini, G. et al. 2001, GCN 986

Wat53 = Watanabe, J. et al. 2001, PASJ, 53, L27

Note. —

- 1 = HST Filter Magnitudes transformed to Johnson-Cousins Filter System
- 3 = host galaxy corrected for optical transient

Table 27. **GRB 010921**

dt	mag	error	band	date	corrections	reference	remark
1.074	19.669	0.06	$R_{\rm C}$	010922.293	NE,NH	Pri571	
1.074	39.116	5.072	$R_{\rm c}$	010922.293	NE,CH	Pri584	1
1.102	19.79	0.069	$R_{\rm C}$	010922.321	NE,NH	Pri571	
1.102	36.135	4.486	$R_{\rm C}$	010922.321	NE,CH	Pri584	1
21.007	21.693	0.053	$R_{\rm C}$	011012.226	NE,NH	Pri571	
28.053	21.807	0.051	$R_{\rm C}$	011019.272	NE,NH	Pri571	
28.053	0.916	4.284	$R_{\rm C}$	011019.272	NE,CH	Pri584	1
56.7	21.93	0.09	$R_{\rm C}$	011117.7	NE,NH	Par571	
56.932	0.47	4.238	$R_{\rm C}$	011117.151	NE,CH	Pri584	1
609	21.98	0.05	$R_{\rm C}$	030522	NE,NH	AZ	
0.036	> 15.2	0.15	CR	010921.255	NE,NH	Par571	
0.198	> 15.2	0.15	CR	010921.417	NE,NH	Par571	
0.909	19.4	0.1	CR	010922.128	NE,NH	Par571	
1.048	19.9	0.1	CR	010922.267	NE,NH	Par571	
1.909	> 21.1	0.3	CR	010923.128	NE,NH	Par571	
2.05	> 21.2	0.3	CR	010923.269	NE,NH	Par571	
0.896	19.5	0.3	r^*	010922.115	NE,NH	Par571	
0.925	19.593	0.033	r^*	010922.144	NE,NH	Pri571	
0.925	46.104	0.722	r^*	010922.144	NE,CH	Pri584	1
0.929	19.601	0.039	r^*	010922.148	NE,NH	Pri571	
0.929	44.995	0.661	r^*	010922.148	NE,CH	Pri584	1
2.036	21.5	1.0	r^*	010923.255	NE,NH	Par571	
6.135	21.62	0.036	r^*	010927.354	NE,NH	Pri571	
6.135	2.13	1.223	r^*	010927.354	NE,CH	Pri584	1
25.926	21.994	0.028	r^*	011017.145	NE,NH	Pri571	
25.926	0.086	0.379	r^*	011017.145	NE,CH	Pri584	1
26.869	21.918	0.03	r^*	011018.088	NE,NH	Pri571	
26.869	0.189	0.382	r^*	011018.088	NE,CH	Pri584	1
27.89	21.977	0.028	r^*	011019.109	NE,NH	Pri571	
27.89	0.256	0.285	r^*	011019.109	NE,CH	Pri584	1

References. --

 $\begin{array}{l} {\rm AZ=Zeh,\ A.\ et\ al.,\ unpublished} \\ {\rm Par571=Park,\ H.\ S.\ et\ al.\ 2002,\ ApJ,\ 571,\ L131} \\ {\rm Pri571=Price,\ P.\ A.\ et\ al.\ 2002,\ ApJ,\ 571,\ L121} \\ {\rm Pri584=Price,\ P.\ A.\ et\ al.\ 2003,\ ApJ,\ 584,\ 936} \end{array}$

Note. —

 $1 = \text{flux in } \mu \text{Jy}$

Table 28. **GRB 011121**

dt	mag	error	band	date	corrections	reference	remark
0.4323	19.06	0.03	R	011122.2152	NE,NH	Gar582	
0.4388	19.09	0.03	R	011122.2217	NE,NH	Gar582	
0.4888	19.26	0.04	R	011122.2717	NE,NH	Gar 582	
0.4970	19.31	0.03	R	011122.2799	NE,NH	Gar 582	
0.5231	19.45	0.03	R	011122.3060	NE,NH	Gar 582	
0.5439	19.50	0.03	R	011122.3268	NE,NH	Gar 582	
0.5716	19.59	0.03	R	011122.3545	NE,NH	Gar 582	
1.5323	21.41	0.05	R	011123.3152	NE,NH	Gar 582	
1.5351	21.43	0.04	R	011123.3180	NE,NH	Gar 582	
1.5375	21.40	0.06	R	011123.3204	NE,NH	Gar 582	
2.578	22.24	0.12	R	011124.361	NE,NH	Gar 582	
12.55	23.07	0.15	R	011204.33	NE,NH	Gar 582	
13.23	23.211	0.054	R	011205.01	NE,NH	Blo572	
13.55	23.11	0.12	R	011205.33	NE,NH	Gar582	
14.57	23.23	0.15	\mathbf{R}	011206.35	NE,NH	Gar582	
15.53	23.19	0.15	R	011207.31	NE,NH	Gar582	
17.28	23.10	0.13	R	011209.06	NE,NH	Gar582	
23.09	23.382	0.048	R	011214.87	NE,NH	Blo572	
27.3	23.697	0.044	R	011219.08	NE,NH	Blo572	
76.58	25.264	0.092	R	020206.36	NE,NH	Blo572	
0.3897	18.86	0.02	$R_{\rm C}$	011122.1726	NE,CH	Gre599	
0.5404	19.51	0.01	$R_{\rm C}$	011122.3233	NE,CH	Gre 599	
1.4081	21.23	0.05	$R_{\scriptscriptstyle \mathrm{C}}$	011123.1910	NE,CH	Gre 599	
1.5741	21.75	0.08	$R_{\rm C}$	011123.3569	NE,CH	Gre 599	
3.5484	23.6	0.4	$R_{\rm C}$	011125.3313	NE,CH	Gre 599	
13.5209	23.2	0.08	$R_{\rm C}$	011205.3038	NE,CH	Gre 599	
18.5032	23.65	0.08	$R_{\rm C}$	011210.2861	NE,CH	Gre 599	
19.5432	23.45	0.08	$R_{\rm C}$	011211.3260	NE,CH	Gre599	
2.565	22.93	0.08	$R_{\scriptscriptstyle \rm Special}$	011124.3479	NE,CH	Gre599	
3.5616	23.68	0.15	$R_{\scriptscriptstyle{\rm Special}}$	011125.3444	NE,CH	Gre 599	

 ${\rm Blo572 = Bloom, \ J. \ S. \ et \ al. \ 2002, \ ApJ, \ 572, \ L45}$

Gar582 = Garnavich, P. M. et al. 2003, ApJ, 582, 924

Gre599 = Greiner, J. et al. 2003, ApJ, 599, 1223

Table 29. **GRB 011211**

dt	mag	error	band	date	corrections	reference	remark
0.4199	20.012	0.033	R	011212.2181	NE,NH	JakNA9	
0.4245	19.877	0.029	R	011212.2227	NE,NH	JakNA9	
0.429	19.918	0.022	R	011212.2272	NE,NH	JakNA9	
0.45	20.09	0.07	R	011212.2482	NE,NH	Hol124	
0.4518	20.28	0.02	R	011212.2500	NE,NH	Hol124	
0.4585	20.4	0.04	R	011212.2567	NE,NH	Hol124	
0.4789	20.37	0.04	R	011212.2771	NE,NH	Hol124	
0.4849	20.368	0.04	R	011212.2831	NE,NH	JakNA9	
0.493	20.298	0.033	R	011212.2912	NE,NH	JakNA9	
0.4963	20.25	0.03	R	011212.2945	NE,NH	Hol124	
0.5012	20.23	0.038	R	011212.2994	NE,NH	JakNA9	
0.5093	20.285	0.042	R	011212.3075	NE,NH	JakNA9	
0.5175	20.274	0.051	R	011212.3157	NE,NH	JakNA9	
0.5244	20.33	0.04	R	011212.3226	NE,NH	Hol124	
0.5256	20.33	0.046	R	011212.3238	NE,NH	JakNA9	
0.5418	20.51	0.04	R	011212.3400	NE,NH	Hol124	
0.5651	20.539	0.063	R	011212.3633	NE,NH	JakNA9	
0.5699	20.616	0.1	R	011212.3681	NE,NH	JakNA9	
1.074	20.91	0.13	R	011212.8722	NE,NH	Jak408	
1.089	21.022	0.089	R	011212.8872	NE,NH	Jak408	
1.1025	20.732	0.081	R	011212.9007	NE,NH	Jak408	
1.1115	20.952	0.092	R	011212.9097	NE,NH	Jak408	
1.1206	20.959	0.094	R	011212.9188	NE,NH	Jak408	
1.1289	21.061	0.129	R	011212.9271	NE,NH	Jak408	
1.1417	21.204	0.168	R	011212.9399	NE,NH	Jak408	
1.162	21.037	0.067	R	011212.9602	NE,NH	Jak408	
1.1771	21.203	0.163	\mathbf{R}	011212.9753	NE,NH	Jak408	
1.1803	21.174	0.047	R	011212.9785	NE,NH	Jak408	
1.1963	21.134	0.063	\mathbf{R}	011212.9945	NE,NH	Jak408	
1.1997	21.1	0.11	R	011212.9979	NE,NH	Jak408	
1.2126	21.195	0.088	R	011213.0108	NE,NH	Jak408	
1.4114	21.123	0.076	R	011213.2096	NE,NH	Jak408	
1.4436	21.48	0.11	R	011213.2418	NE,NH	Hol124	

Table 29—Continued

dt	mag	error	band	date	corrections	reference	remark
1.4861	21.378	0.067	R	011213.2843	NE,NH	Jak408	
1.4942	21.408	0.062	R	011213.2924	NE,NH	Jak408	
1.5165	21.35	0.09	R	011213.3147	NE,NH	Hol124	
1.545	21.41	0.07	R	011213.3432	NE,NH	Hol124	
1.5568	21.356	0.057	R	011213.3550	NE,NH	Jak408	
1.5649	21.495	0.086	R	011213.3631	NE,NH	Jak408	
2.715	> 22.4	0.2	R	011214.5132	NE,NH	Hol124	
3.5456	> 23.0		R	011215.3438	NE,NH	Jak408	
4.5089	23.32	0.25	R	011216.3071	NE,NH	Jak408	
5.5049	23.69	0.25	R	011217.3031	NE,NH	Jak408	
5.5093	24.1	0.2	R	011217.3075	NE,NH	Jak408	
6.5062	24.22	0.4	R	011218.3044	NE,NH	Jak408	
9.5098	25.27	0.16	R	011221.3080	NE,CH	Jak408	
14.0208	26.71	0.16	R	011225.8190	NE,CH	Jak408	
25.9738	27.45	0.21	R	020106.7720	NE,CH	Jak408	
31.9138	28.4	0.48	R	020112.7120	NE,CH	Jak408	

References. --

Hol124 = Holland, S. T. et al. 2002, AJ, 124, 639

Jak408 = Jakobsson, P. et al. 2003, A&A, 408, 941

JakNA9 = Jakobsson, P. et al. 2004, NA, 9, 435

Table 30. **GRB 020124**

dt	mag	+ error	- error	band	date	corrections	reference	remark
0.06985	18.219	0.046	0.046	R	020124.51516	NE,NH	Ber581	
0.072	> 17.8			R	020100.130	NE,NH	Kaw1343	
0.07842	18.376	0.082	0.082	\mathbf{R}	020124.52373	NE,NH	Ber581	
0.246	> 18.6			\mathbf{R}	020100.150	NE,NH	Kaw1343	
0.281	>18.8			\mathbf{R}	020100.000	NE,NH	Kaw1343	
0.323	> 19.1			\mathbf{R}	020100.000	NE,NH	Kaw1343	
0.364	>19.1			\mathbf{R}	020100.517	NE,NH	Kaw1343	
0.406	> 17.7			\mathbf{R}	020100.691	NE,NH	Kaw1343	
17.645	28.68	0.25	0.2	\mathbf{R}	020211.09	NE,NH	Ber581	2
24.855	29.35	0.6	0.39	\mathbf{R}	020218.30	NE,NH	Ber581	2
28.56	29.46	0.46	0.32	\mathbf{R}	020222.005	NE,NH	Ber581	2,3
32.265	29.56	0.76	0.44	\mathbf{R}	020225.71	NE,NH	Ber581	2
1.595	23.42	0.25	0.25	$R_{\rm C}$	020126.04	NE,NH	Hjo597	
2.835	24.26	0.45	0.32	$R_{\scriptscriptstyle \mathrm{C}}$	020127.28	NE,NH	Hjo597	
0.06673	17.918	0.041	0.041	$R_{\scriptscriptstyle M}$	020124.51204	NE,NH	Ber581	1
0.07124	17.984	0.044	0.044	$R_{\scriptscriptstyle M}$	020124.51655	NE,NH	Ber581	1
0.07575	18.111	0.049	0.049	$R_{\scriptscriptstyle M}$	020124.52106	NE,NH	Ber581	1
0.1126	18.678	0.048	0.048	$R_{\scriptscriptstyle M}$	020124.55791	NE,NH	Ber581	1
0.11712	18.867	0.036	0.036	$R_{\scriptscriptstyle M}$	020124.56243	NE,NH	Ber581	1
0.12165	18.843	0.039	0.039	$R_{\scriptscriptstyle M}$	020124.56696	NE,NH	Ber581	1
0.105	18.5	0.4	0.3	CR	020124.55	NE,NH	Hjo597	

 $Ber581 = Berger, \, E. \, et \, al. \, \, 2002, \, ApJ, \, 581, \, 981$

 ${
m Hjo597} = {
m Hjorth, J. \ et \ al. \ 2003, ApJ, 597, 699}$

 $\mathrm{Kaw}1343=\mathrm{Kawai},\,\mathrm{N.}$ et al. 2002, GCN 1343

Note. —

- 1 = MACHO Filter
- $2={\rm converted}$ from HST STIS 50CCD Clear Filter
- 3 =co-addition of 24.855 and 32.265 days

Table 31. **GRB 020305**

dt	mag	error+	error-	band	date	corrections	reference	remark
0.67	>18			R	020306.17	NE,NH	Mor1264	
3.84	> 21.5			\mathbf{R}	020309.34	NE,NH	Pri1267	
7.1	22.6			\mathbf{R}	020312.6	NE,NH	Ohy1271	
8.3	22.1			\mathbf{R}	020313.8	NE,NH	Fox1270	
11.5192	22.76	0.05	0.05	\mathbf{R}	020317.0160	NE,NH	Gor437	
13.5032	22.48	0.08	0.08	\mathbf{R}	020319.0000	NE,NH	Gor 437	
15.5817	22.42	0.06	0.06	\mathbf{R}	020321.0785	NE,NH	Gor437	
16.5837	22.41	0.05	0.05	\mathbf{R}	020322.0805	NE,NH	Gor 437	
39.0	24.38	0.05	0.05	\mathbf{R}	020413.5	NE,CH	Gor 437	
103.0	28.31	2.41	1.07	\mathbf{R}	020616.5	NE,CH	Gor437	
302.3	25.17	0.14	0.14	R	030101.8	NE,NH	Gor437	
0.833	>20			CR	020306.33	NE,NH	Pri1261	
0.973	>20			CR	020306.47	NE,NH	Pri1261	
0.833	20.1	0.5	0.5	r^*	020306.33	NE,NH	Lee1275	

Fox1270 = Fox, D. W. et al. 2002, GCN 1270

Gor 437 = Gorosabel, J. et al. 2005, A&A, 437, 411

Lee 1275 = Lee, B. C. et al. 2002, GCN 1275

Mor1264 = Moran, J. et al. 2002, GCN 1264

Ohy1271 = Ohyama, Y. et al. 2002, GCN 1271

Pri1261 = Price, P. A. et al. 2002, GCN 1261

Pri1267 = Price, P. A. et al. 2002, GCN 1267

Note. —

Note: The location of the optical afterglow discovered in GCN 1267 lies outside the image

reported in GCN 1265 (Jelinek, M. et al. 2002), thus their upper limit is not included. R magnitude from Fox1270 (Palomar 200") is too bright. According to GCN, Gunn i Filter was used, but magnitude is given as R. GCN 1542 (Gorosabel, J. et al. – link to webpage) also lists data point as R.

Table 32. **GRB 020322**

dt	mag	error	band	date	corrections	reference	remark
0.279	>22.5		R	020322.440	NE,NH	Sze1295	
0.283	>20.8		R	020322.444	NE,NH	Fox1292	
0.283	23.26	0.32	R	020322.444	NE,NH	Blo1294	
0.38	>22.1		R	020322.54	NE,NH	Fox1292	
0.839	23.8	0.3	R	020323.000	NE,NH	Gre1298	
1.26	> 24.5	0.3	R	020323.42	NE,NH	Wil1307	
16.8	27		R	020408	NE,NH	Bur1536	
16.8	>30.1		R	020408	NE,CH	Bur1536	
74.8	27		R	020605	NE,NH	Bur1536	
1.248	24.5	0.7	r^*	020323.409	NE,NH	McM1299	

Blo1294 = Bloom, J. S. et al. 2002, GCN 1294

Bur1536 = Burud, I. et al. 2002, GCN 1536

Fox1292 = Fox, D. W. et al. 2002, GCN 1292

Gre1298 = Greiner, J. et al. 2002, GCN 1298

McM1299 = McMillan, R. J. et al. 2002, GCN 1299

Sze1295 = Szentgyorgyi, A. et al. 2002, GCN 1295

Wil1307 = Williams, G. G. et al. 2002, GCN 1307

Table 33. **GRB 020331**

dt	mag	+ error	- error	band	date	corrections	reference	remark
0.0847	>14.9			R	020331.774	NE,NH	Kaw1344	
0.09	19.5			R	020331.779	NE,NH	Fox1334	
0.123	> 14.2			R	020331.812	NE,NH	Kaw1344	
0.148	> 13.7			R	020331.838	NE,NH	Kaw1344	
0.53	21.1	0.2	0.2	R	020401.219	NE,NH	Dul1382	
0.568	> 19.0			R	020401.257	NE,NH	Har1318	
0.71	21			R	020401.399	NE,NH	Fox1334	
1.69	21.6			R	020402.379	NE,NH	Fox1334	
8.37	23.1	0.2	0.2	R	020409.059	NE,NH	Dul1382	
12.53	23.2	0.3	0.3	R	020413.219	NE,NH	Dul1382	
12.53	25			R	020413.219	NE,CH	Dul1382	
23.9	24.54	0.07	0.07	R	020424.589	NE,NH	Sod1460	
36.6	24.86	0.1	0.1	R	020507.289	NE,NH	Sod1460	
42.7	25.01	0.09	0.09	R	020513.389	NE,NH	Sod1460	
49.3	24.76	0.11	0.11	R	020519.989	NE,NH	Sod1460	
0.0448	17.9	0.8	0.4	CR	020331.73402	NE,NH	Kat1363	

Dul1382 = Dullighan, A. et al. 2002, GCN 1382

Fox1334 = Fox, D. W. et al. 2002, GCN 1334

Har1318 = Hartmann, D. H. et al. 2002, GCN 1318

Kat1363 = Kato, T. et al. 2002, GCN 1363

 $\mathrm{Kaw}1344=\mathrm{Kawai},\,\mathrm{N.}$ et al. 2002, GCN 1344

 $\operatorname{Sod1460} = \operatorname{Soderberg}, \, \operatorname{A.\,M.}$ et al. 2002, GCN 1460

Note. —

Fox1334 states that the afterglow - upon closer inspection - is also visible in early SSO 40'' images, thus invalidating the upper limit in GCN 1316 (Price, P. A. et al. 2002)

Table 34. **GRB 020405**

dt	mag	+error	-error	band	date	corrections	reference	remark
0.907	19.795	0.198	0.1674	R	020405.936	NE,CH	Pri589	1
0.984	20.17	0.03	0.03	R	020406.013	NE,NH	Mas404	
0.9842	20.19	0.03	0.03	R	020406.013	NE,CH	NMPC	
1.1	20.28	0.04	0.04	R	020406.129	NE,NH	Mas404	
1.1002	20.3	0.04	0.04	R	020406.129	NE,CH	NMPC	
1.107	20.38	0.02	0.02	R	020406.136	NE,NH	Mas404	
1.1072	20.41	0.02	0.02	R	020406.136	NE,CH	NMPC	
1.157	20.48	0.01	0.01	R	020406.186	NE,NH	Mas404	
1.1572	20.51	0.01	0.01	R	020406.186	NE,CH	NMPC	
1.168	20.46	0.01	0.01	R	020406.197	NE,NH	Mas404	
1.1688	20.49	0.01	0.01	R	020406.197	NE,CH	NMPC	
1.182	20.44	0.02	0.02	R	020406.211	NE,NH	Mas404	
1.1822	20.47	0.02	0.02	R	020406.211	NE,CH	NMPC	
1.205	20.53	0.02	0.02	R	020406.234	NE,NH	Mas404	
1.2052	20.56	0.02	0.02	R	020406.234	NE,CH	NMPC	
2.103	21.2	0.04	0.04	R	020407.132	NE,NH	Mas404	
2.1032	21.27	0.04	0.04	R	020407.132	NE,CH	NMPC	
2.211	21.3	0.06	0.06	R	020407.240	NE,NH	Mas404	
2.2112	21.41	0.07	0.07	R	020407.240	NE,CH	NMPC	
2.352	21.32	0.06	0.06	R	020407.381	NE,NH	Mas404	
2.3522	21.4	0.07	0.07	R	020407.381	NE,CH	NMPC	
3.265	22.09	0.03	0.03	R	020408.294	NE,NH	Mas404	
3.2632	22.26	0.04	0.04	R	020408.294	NE,CH	NMPC	
4.176	22.23	0.04	0.04	R	020409.205	NE,NH	Mas404	
4.1762	22.43	0.05	0.05	R	020409.205	NE,CH	NMPC	
6.665	23.2811	1.4351	0.5972	R	020411.694	NE,CH	Pri589	1
7.078	23.09	0.04	0.04	R	020412.107	NE,NH	Mas404	
7.0781	23.62	0.08	0.08	R	020412.107	NE,CH	NMPC	
10.215	23.36	0.04	0.04	R	020415.244	NE,NH	Mas404	
10.2152	24.11	0.11	0.11	R	020415.244	NE,CH	NMPC	
23.3592	23.98	0.09	0.09	R	020428.388	NE,CH	NMPC	3
26.5452	24.3	0.1	0.1	R	020501.574	NE,CH	NMPC	3
28.5502	24.37	0.1	0.1	R	020503.579	NE,CH	NMPC	3

Table 34—Continued

dt	mag	+error	-error	band	date	corrections	reference	remark
57.5392	25.9	0.12	0.12	R	020601.568	NE,CH	NMPC	3
0.723	20.1061	0.1147	0.1037	$R_{\scriptscriptstyle M}$	020405.752	NE,CH	Pri589	1,2
0.732	20.0932	0.119	0.1072	$R_{\scriptscriptstyle M}$	020405.761	NE,CH	Pri589	1,2
0.743	20.135	0.1541	0.135	$R_{\scriptscriptstyle M}$	020405.772	NE,CH	Pri589	1,2
0.748	20.1165	0.0957	0.0879	$R_{\scriptscriptstyle M}$	020405.777	NE,CH	Pri589	1,2
1.401	20.959	0.0888	0.0821	$R_{\scriptscriptstyle M}$	020406.430	NE,CH	Pri589	1,2
4.405	22.3509	0.8158	0.4605	$R_{\scriptscriptstyle \rm M}$	020409.434	NE,CH	Pri589	1,2

Mas404 = Masetti, N. et al. 2003, A&A, 404, L465

NMPC = Masetti, N., private communication

Pri589 = Price, P. A. et al. 2003, ApJ, 589, 838

Note. —

1= converted from flux density given in $\mu Jy,$ Novicki-Tonry photometry, thus no host contribution

2 = MACHO filter

3 =converted from HST filter

Table 35. **GRB 020410**

dt	mag	error	band	date	corrections	reference	remark
0.246 0.2744 6.895 61.6	>20 21 >25 >24.5	0.3	R R R	020410.691 020410.7198 020417.340 020611	NE,NH NE,NH NE,NH NE,NH	Nic427 Nic427 Lev624 Nic427	1

 ${\rm Lev} 624 = {\rm Levan}, \, {\rm A. \ et \ al. \ 2005}, \, {\rm ApJ}, \, 624, \, 880$

Nic427 = Nicastro, L. et al. 2004, A&A, 427, 445

Note. —

1 = deep upper limit obtained by removing flux from galaxy 0."65 away

Table 36. **GRB 020813**

dt	mag	error	band	date	corrections	reference	remark
0.0720023	17.9	0.05	R	020813.18611	NE,NH	Li115	2
0.0725347	17.98	0.06	R	020813.18664	NE,NH	Li115	2
0.0730671	17.81	0.05	R	020813.18718	NE,NH	Li115	2
0.07381	18.38	0.38	R	020813.18792	NE,NH	Wil1492	
0.0749189	17.91	0.04	R	020813.18903	NE,NH	Li115	2
0.0780555	17.94	0.04	R	020813.19216	NE,NH	Li115	2
0.0846296	17.92	0.06	R	020813.19874	NE,NH	Li115	2
0.0851736	17.95	0.07	R	020813.19928	NE,NH	Li115	2
0.0875231	18	0.07	R	020813.20163	NE,NH	Li115	2
0.1334374	18.16	0.06	R	020813.24755	NE,NH	Li115	2
0.1339699	18.08	0.05	R	020813.24808	NE,NH	Li115	2
0.1363078	18.23	0.02	R	020813.25042	NE,NH	Li115	2
0.16496	18.4	0.03	R	020813.27907	NE,NH	Li115	6
0.1653	18.488	0.004	R	020813.2794	NE,NH	Lau597	5
0.1653122	18.4907	0.00769885	R	020813.27942	NE,NH	Cov404	1
0.17355	18.43	0.02	R	020813.28766	NE,NH	Li115	6
0.1739	18.518	0.004	R	020813.2880	NE,NH	Lau597	5
0.1739002	18.5268	0.00769804	R	020813.28801	NE,NH	Cov404	1
0.17480	18.44	0.02	\mathbf{R}	020813.28891	NE,NH	Li115	6
0.1751502	18.5237	0.00769781	R	020813.28926	NE,NH	Cov404	1
0.1752	18.538	0.005	R	020813.2893	NE,NH	Lau597	5
0.18337	18.48	0.03	R	020813.29748	NE,NH	Li115	6
0.1837	18.568	0.004	R	020813.2978	NE,NH	Lau597	5
0.1837152	18.5697	0.00769796	R	020813.29782	NE,NH	Cov404	1
0.18441	18.49	0.02	R	020813.29852	NE,NH	Li115	6
0.1847572	18.5863	0.00769812	R	020813.29887	NE,NH	Cov404	1
0.1848	18.58	0.004	\mathbf{R}	020813.2989	NE,NH	Lau597	5
0.18545	18.49	0.02	R	020813.29956	NE,NH	Li115	6
0.1857982	18.5673	0.00769803	\mathbf{R}	020813.29991	NE,NH	Cov404	1
0.1858	18.574	0.004	R	020813.2999	NE,NH	Lau597	5
0.18649	18.5	0.02	R	020813.30060	NE,NH	Li115	6
0.1868	18.588	0.004	R	020813.3009	NE,NH	Lau597	5
0.1868402	18.5897	0.00798511	R	020813.30095	NE,NH	Cov404	1

Table 36—Continued

dt	mag	error	band	date	corrections	reference	remark
0.19064	18.52	0.03	R	020813.30475	NE,NH	Li115	6
0.1909842	18.6054	0.0079845	R	020813.30509	NE,NH	Cov404	1
0.1910	18.603	0.004	R	020813.3051	NE,NH	Lau597	5
0.19356	18.54	0.03	R	020813.30767	NE,NH	Li115	6
0.1939	18.616	0.005	R	020813.3080	NE,NH	Lau597	5
0.1939122	18.6188	0.00832176	R	020813.30802	NE,NH	Cov404	1
0.19839	18.56	0.03	R	020813.31250	NE,NH	Li115	6
0.1987	18.64	0.004	R	020813.3128	NE,NH	Lau597	5
0.1987382	18.6395	0.00798464	R	020813.31285	NE,NH	Cov404	1
0.2020717	18.58	0.04	R	020813.31618	NE,NH	Li115	2
0.2048148	18.54	0.05	R	020813.31892	NE,NH	Li115	2
0.2335879	18.73	0.08	R	020813.3477	NE,NH	Li115	2
0.2357175	18.67	0.05	R	020813.34983	NE,NH	Li115	2
0.3441782	19.16	0.07	R	020813.45829	NE,NH	Ura595	
0.3999999	19.35	0.13	R	020813.51411	NE,NH	Ura595	
0.4073032	19.21	0.09	R	020813.52141	NE,NH	Ura595	
0.4683680	19.55	0.06	R	020813.58248	NE,NH	Ura595	
0.66589	19.7	0.25	R	020813.78	NE,NH	Bes1528	
0.74489	19.5		R	020813.859	NE,NH	Mas1484	
0.7468912	20.04	0.11	R	020813.861	NE,NH	Cov404	
0.93741	20.3	0.03	R	020814.05152	NE,NH	Li115	6
0.9377542	20.3074	0.0146303	R	020814.05186	NE,NH	Cov404	1
0.93845	20.31	0.03	R	020814.05256	NE,NH	Li115	6
0.9387962	20.3008	0.0128466	R	020814.05291	NE,NH	Cov404	1
0.93949	20.32	0.03	R	020814.05360	NE,NH	Li115	6
0.9398382	20.276	0.012267	R	020814.05395	NE,NH	Cov404	1
0.94053	20.33	0.03	R	020814.05464	NE,NH	Li115	6
0.9408792	20.3133	0.012253	R	020814.05499	NE,NH	Cov404	1
1.0962499	20.59	0.18	R	020814.21036	NE,NH	Li115	$\overline{2}$
1.1782291	20.77	0.23	R	020814.29234	NE,NH	Li115	$\overline{2}$
1.9318912	21.47	0.04	R	020815.046	NE,NH	Cov404	
2.9308912	22	0.05	R	020816.045	NE,NH	Cov404	
3.874669	22.322	0.0605	R	020816.98908	NE,NH	Gor422	

Table 36—Continued

dt	mag	error	band	date	corrections	reference	remark
57.95589	23.9	0.14	R	021010.07	NE,NH	Gor1651	4

Bes1528 = Beskin, G. et al. 2002, GCN 1528

Cov404 = Covino, S. et al. 2003, A&A, 404, L5

Gor1651 = Gorosabel, J. et al. 2002, GCN 1651

Gor 422 = Gorosabel, J. et al. 2004, A&A, 422, 113

Lau597 = Laursen, L. T. et al. 2003, ApJ, 597, L107

Li115 = Li, W. et al. 2003, PASP, 115, 844

Mas1484 = Masi, G. et al. 2002, GCN 1484

Ura595 = Urata, Y. et al. 2003, ApJ, 595, L21

Wil1492 = Williams, C. G. et al. 2002, GCN 1492

Note. —

- 1 = Baade Magellan data as reduced by Cov404
- 2 =converted from unfiltered images
- 3 = AB magnitude, UT only given as "4:00"
- 4 = possibly only host galaxy
- 5 = Baade Magellan data as reduced by Lau597
- 6 = Baade Magellan data as reduced by Li115

Table 37. XRF 020903

dt	mag	error	band	date	corrections	reference	remark
0.5162	>17.4		R	020903.9372	NE,NH	Pav1535	
0.899	19.23	0.10	R	020904.32	NE,NH	Sod606	
6.879	20.60	0.10	R	020910.30	NE,NH	Sod606	
24.829	20.80	0.2	R	020928.35	NE,NH	Sod606	
26.510	20.42	0.10	R	020929.931	NE,NH	Cov1563	
28.495	20.60	0.09	\mathbf{R}	021001.916	NE,NH	Cov1563	
32	21	0.5	\mathbf{R}	021005.421	NE,NH	Sav2761	
33.749	20.73	0.17	\mathbf{R}	021007.17	NE,NH	Sod606	
36.78	20.54	0.12	R	021010.2	NE,NH	Gor1631	
60	21	0.5	\mathbf{R}	021103.421	NE,NH	Sav2761	
91.37	24.32	0.03	R	021203.79	NE,CH	Sod627	
302.049	21.00	0.45	R	030702.47	NE,NH	Sod606	
1.004	>19.8		$R_{\scriptscriptstyle M}$	020904.425	NE,NH	Pri1533	
0.1873	>20		RI	020903.6083	NE,NH	Tri1531	1
32	20.18	0.14	r'	021005.421	NE,NH	Sav2761	
35	20.18	0.14	r'	021008.421	NE,NH	Sav2761	
37	20.18	0.14	r'	021010.421	NE,NH	Sav2761	

Cov1563 = Covino, S. et al. 2002, GCN 1563

Gor1631 = Gorosabel, J. et al. 2002, GCN 1631

Pav1535 = Pavlenko, E. et al. 2002, GCN 1535

Pri1533 = Price, P. A. et al. 2002, GCN 1533

Sav2761 = Savage, A. et al. 2004, GCN 2761

Sod553 = Soderberg, A. M. et al. 2005, ApJ, 627, 877

Sod606 = Soderberg, A. M. et al. 2004, ApJ, 606, 994

 $\mathrm{Tri}1531=\mathrm{Tristram},$ P. et al. 2002, GCN 1531

Note. —

Upper limit attained by Uemura, M. 2002 (GCN # 1537) is not included, since the later discovered OA is not in the FOV.

1 = extremely wide MOA Filter at Mt. John Observatory 0.6 m telescope

Table 38. **GRB 021004**

dt	mag	error	band	date	corrections	reference	remark
0.0037732	15.45	0.17	R	021004.508102	NE,NH	Fox422	
0.0065625	15.543	0.044	R	021004.510891	NE,NH	Fox422	
0.0083449	15.594	0.068	R	021004.512674	NE,NH	Fox422	
0.0118982	15.886	0.059	R	021004.516227	NE,NH	Fox422	
0.0283681	16.39	0.18	R	021004.532697	NE,NH	Fox 422	
0.03697	16.52	0.2	R	021004.54097	NE,NH	Ber584	2
0.07725	16.38	0.12	R	021004.58125	NE,NH	Ber584	2
0.08836	16.36	0.12	R	021004.59236	NE,NH	Ber584	2
0.11753	16.63	0.12	R	021004.62153	NE,NH	Ber584	2
0.18419	17.03	0.12	R	021004.68819	NE,NH	Ber584	2
0.18669	17.13	0.05	R	021004.69069	NE,NH	Ber584	2
0.19326	17.2	0.05	R	021004.69726	NE,NH	Ber584	2
0.19911	17.24	0.05	R	021004.70311	NE,NH	Ber584	2
0.20521	17.21	0.05	R	021004.70921	NE,NH	Ber584	2
0.21088	17.28	0.05	R	021004.71488	NE,NH	Ber584	2
0.21697	17.39	0.05	R	021004.72097	NE,NH	Ber584	2
0.2446875	17.599	0.156	R	021004.749016	NE,NH	Fox 422	
0.24921	17.69	0.05	R	021004.75321	NE,NH	Ber584	2
0.269456	17.720	0.111	R	021004.773785	NE,NH	Fox 422	
0.2986227	17.945	0.125	R	021004.802951	NE,NH	Fox422	
0.3034722	18.051	0.131	R	021004.807801	NE,NH	Fox 422	
0.3083102	17.966	0.118	R	021004.812639	NE,NH	Fox422	
0.3133912	18.132	0.130	R	021004.817720	NE,NH	Fox 422	
0.3190394	17.892	0.110	R	021004.823368	NE,NH	Fox 422	
0.32078	17.82	0.03	R	021004.8251	NE,NH	Bal1580	
0.32142	17.9	0.05	R	021004.82542	NE,NH	Ber584	2
0.3245718	18.068	0.113	\mathbf{R}	021004.828900	NE,NH	Fox 422	
0.3415	18.02	0.05	R	021004.8455	NE,NH	Ber584	2
0.346	18	0.05	R	021004.85	NE,NH	Ber584	2
0.35267	18.06	0.05	R	021004.85667	NE,NH	Ber584	2
0.40456	18.2	0.05	R	021004.90856	NE,NH	Ber584	2
0.41596	18.28	0.05	R	021004.91996	NE,NH	Ber584	2
0.416	18.25	0.15	\mathbf{R}	021004.92	NE,NH	Ber584	

Table 38—Continued

$\frac{}{dt}$	mag	error	band	date	corrections	reference	remark
0.41681	18.2	0.05	R	021004.92081	NE,NH	Ber584	2
0.42102	18.37	0.05	R	021004.92502	NE,NH	Ber584	2
0.42693	18.4	0.05	R	021004.93093	NE,NH	Ber584	2
0.43889	18.28	0.05	R	021004.94289	NE,NH	Ber584	2
0.47959	18.46	0.05	R	021004.98359	NE,NH	Ber584	2
0.4898	18.67	0.05	R	021004.9938	NE,NH	Ber584	2
0.49293	18.56	0.05	R	021004.99693	NE,NH	Ber584	2
0.49407	18.65	0.05	R	021004.99807	NE,NH	Ber584	2
0.53943	18.5		R	021005.04375	NE,NH	Mas1621	4
0.54012	18.8		R	021005.04444	NE,NH	Klo1614	
0.6173	18.935	0.027	R	021005.1213	NE,NH	Ber584	
0.622	18.91	0.03	R	021005.126	NE,NH	Mir595	
0.6266	18.988	0.029	R	021005.1306	NE,NH	Ber584	
0.6328	18.995	0.026	R	021005.1368	NE,NH	Ber584	
0.6377	18.98	0.027	R	021005.1417	NE,NH	Ber584	
0.646	18.89	0.06	R	021005.15	NE,NH	Mir595	
0.6463	19.057	0.02	R	021005.1503	NE,NH	Ber584	
0.6801	19.04	0.031	R	021005.1841	NE,NH	Ber584	
0.681	19.12	0.02	R	021005.185	NE,NH	Mir595	
0.6845	19.095	0.02	R	021005.1885	NE,NH	Ber584	
0.698	19.16	0.02	R	021005.202	NE,NH	Mir595	
0.69887	19.14	0.1	R	021005.20319	NE,NH	Coo1584	
0.7003	19.112	0.025	R	021005.2043	NE,NH	Ber584	
0.714	19.17	0.03	R	021005.218	NE,NH	Mir595	
0.72367	19.23		R	021005.228	NE,NH	Zha1577	
0.7279	19.162	0.03	R	021005.2319	NE,NH	Ber584	
0.731	19.13	0.03	R	021005.235	NE,NH	Mir595	
0.732	19.16	0.027	R	021005.236	NE,NH	Ber584	
0.7407	19.156	0.025	R	021005.2447	NE,NH	Ber584	
0.7445	19.155	0.021	R	021005.2485	NE,NH	Ber584	
0.7483	19.151	0.022	R	021005.2523	NE,NH	Ber584	
0.7521	19.153	0.02	R	021005.2561	NE,NH	Ber584	
0.753	19.2	0.03	R	021005.257	NE,NH	Mir595	

Table 38—Continued

dt	mag	error	band	date	corrections	reference	remark
0.7559	19.209	0.03	R	021005.2599	NE,NH	Ber584	
0.7597	19.185	0.024	R	021005.2637	NE,NH	Ber584	
0.75985	19.23	0.1	R	021005.26418	NE,NH	Coo1584	
0.7636	19.15	0.029	R	021005.2676	NE,NH	Ber584	
0.7674	19.17	0.022	R	021005.2714	NE,NH	Ber584	
0.77	19.18	0.02	R	021005.274	NE,NH	Mir 595	
0.7712	19.202	0.023	R	021005.2752	NE,NH	Ber584	
0.775	19.184	0.026	R	021005.279	NE,NH	Ber584	
0.77831	19.29		R	021005.28264	NE,NH	Zha1577	
0.7788	19.16	0.024	R	021005.2828	NE,NH	Ber584	
0.7826	19.209	0.021	R	021005.2866	NE,NH	Ber584	
0.785	19.19	0.02	R	021005.289	NE,NH	Mir595	
0.7864	19.156	0.031	R	021005.2904	NE,NH	Ber584	
0.78873	19.33		R	021005.29306	NE,NH	Zha1577	
0.7902	19.159	0.03	R	021005.2942	NE,NH	Ber584	
0.794	19.13	0.023	R	021005.298	NE,NH	Ber584	
0.7979	19.168	0.024	R	021005.3019	NE,NH	Ber584	
0.801	19.19	0.02	R	021005.305	NE,NH	Mir595	
0.8017	19.171	0.022	R	021005.3057	NE,NH	Ber584	
0.8055	19.153	0.024	R	021005.3095	NE,NH	Ber584	
0.8093	19.133	0.028	R	021005.3133	NE,NH	Ber584	
0.817	19.18	0.02	R	021005.321	NE,NH	Mir595	
0.833	19.2	0.02	R	021005.337	NE,NH	Mir595	
0.84478	19.1	0.2	R	021005.3491	NE,NH	Lin1628	
0.849	19.19	0.02	R	021005.353	NE,NH	Mir595	
0.8596	19.185	0.023	R	021005.3636	NE,NH	Ber584	
0.8637	19.142	0.024	R	021005.3677	NE,NH	Ber584	
0.864	19.16	0.02	R	021005.368	NE,NH	Mir595	
0.8676	19.11	0.034	R	021005.3716	NE,NH	Ber584	
0.8749	19.143	0.03	R	021005.3789	NE,NH	Ber584	
0.8793	19.165	0.024	R	021005.3833	NE,NH	Ber584	
0.88	19.17	0.02	R	021005.384	NE,NH	Mir595	
0.8831	19.103	0.027	R	021005.3871	NE,NH	Ber584	

Table 38—Continued

dt	mag	error	band	date	corrections	reference	remark
0.8869	19.141	0.019	R	021005.3909	NE,NH	Ber584	
0.8907	19.164	0.023	R	021005.3947	NE,NH	Ber584	
0.8945	19.198	0.021	R	021005.3985	NE,NH	Ber584	
0.8983	19.2	0.03	R	021005.4023	NE,NH	Ber584	
0.899	19.22	0.03	R	021005.403	NE,NH	Mir595	
0.90012	19.35		R	021005.40444	NE,NH	Zha1577	
0.9021	19.207	0.035	R	021005.4061	NE,NH	Ber584	
0.9059	19.213	0.033	R	021005.4099	NE,NH	Ber584	
0.9097	19.195	0.03	R	021005.4137	NE,NH	Ber584	
0.9136	19.198	0.027	R	021005.4176	NE,NH	Ber584	
0.915	19.21	0.02	R	021005.419	NE,NH	Mir595	
0.9174	19.197	0.029	R	021005.4214	NE,NH	Ber584	
0.9212	19.224	0.031	R	021005.4252	NE,NH	Ber584	
0.9252	19.26	0.028	R	021005.4292	NE,NH	Ber584	
0.941	19.19	0.03	R	021005.445	NE,NH	Mir595	
0.954	19.207	0.026	R	021005.458	NE,NH	Ber584	
0.957	19.27	0.03	R	021005.461	NE,NH	Mir595	
0.958	19.297	0.034	R	021005.462	NE,NH	Ber584	
0.962	19.257	0.028	R	021005.466	NE,NH	Ber584	
0.9659	19.23	0.033	R	021005.4699	NE,NH	Ber584	
0.9697	19.241	0.034	R	021005.4737	NE,NH	Ber584	
0.972	19.29	0.03	R	021005.476	NE,NH	Mir595	
0.9735	19.259	0.04	R	021005.4775	NE,NH	Ber584	
0.989	19.24	0.03	R	021005.493	NE,NH	Mir595	
1.0073	19.279	0.049	R	021005.5113	NE,NH	Ber584	
1.34667	19.54	0.04	R	021005.85067	NE,NH	Ber584	2
1.35466	19.53	0.04	R	021005.85866	NE,NH	Ber584	2
1.36161	19.52	0.05	R	021005.86594	NE,NH	DiP1616	
1.4283	19.62	0.05	R	021005.9323	NE,NH	Ber584	2
1.43318	19.7	0.1	R	021005.9375	NE,NH	Klo1614	
1.50342	19.66	0.04	R	021006.00742	NE,NH	Ber584	2
1.558	19.72	0.04	R	021006.062	NE,NH	Ber584	2
1.57952	19.89	0.07	R	021006.08384	NE,NH	DiP1616	

Table 38—Continued

dt	mag	error	band	date	corrections	reference	remark
1.6035	19.868	0.053	R	021006.1075	NE,NH	Ber584	
1.608	19.84	0.03	R	021006.112	NE,NH	Mir595	
1.611	19.841	0.048	R	021006.115	NE,NH	Ber584	
1.79	19.91	0.02	R	021006.294	NE,NH	Mir595	
1.8071	19.913	0.032	R	021006.3111	NE,NH	Ber584	
1.9704	20.078	0.052	R	021006.4744	NE,NH	Ber584	
1.981	20	0.02	R	021006.485	NE,NH	Mir595	
2.32733	20.12	0.1	R	021006.83133	NE,NH	Ber584	2
2.35533	20.08	0.05	R	021006.85933	NE,NH	Ber584	2
2.41033	20.16	0.05	R	021006.91433	NE,NH	Ber584	2
2.41833	20.15	0.05	R	021006.92233	NE,NH	Ber584	2
2.605	20.051	0.041	R	021007.109	NE,NH	Ber584	
2.606	20.19	0.03	R	021007.11	NE,NH	Mir595	
2.772	20.14	0.02	R	021007.276	NE,NH	Mir595	
2.8044	20.051	0.111	R	021007.3084	NE,NH	Ber584	
2.8631	20.153	0.054	R	021007.3671	NE,NH	Ber584	
2.8766	20.129	0.051	R	021007.3806	NE,NH	Ber584	
2.8839	20.167	0.05	R	021007.3879	NE,NH	Ber584	
2.8914	20.124	0.034	R	021007.3954	NE,NH	Ber584	
2.9593	20.132	0.063	R	021007.4633	NE,NH	Ber584	
2.968	20.21	0.04	R	021007.472	NE,NH	Mir595	
2.9989	20.144	0.1	R	021007.5029	NE,NH	Ber584	
3.28767	20.4	0.1	R	021007.79167	NE,NH	Ber584	2
3.791	20.47	0.02	R	021008.295	NE,NH	Mir595	
3.8028	20.436	0.131	R	021008.3068	NE,NH	Ber584	
3.8878	20.625	0.082	R	021008.3918	NE,NH	Ber584	
3.923	20.52	0.03	R	021008.427	NE,NH	Mir595	
4.678	20.85	0.04	R	021009.182	NE,NH	Mir595	
4.8066	21.2	0.2	R	021009.31087	NE,NH	Lin1638	
4.83	20.79	0.02	R	021009.334	NE,NH	Mir595	
4.8413	20.858	0.044	R	021009.3453	NE,NH	Ber584	
4.8556	20.883	0.05	R	021009.3596	NE,NH	Ber584	
5.69201	21.168	0.04	R	021010.19601	NE,NH	Ber584	

Table 38—Continued

dt	mag	error	band	date	corrections	reference	remark
5.70719	21.153	0.04	R	021010.21119	NE,NH	Ber584	
5.71097	21.18	0.04	R	021010.21497	NE,NH	Ber584	
5.71473	21.17	0.04	R	021010.21873	NE,NH	Ber584	
5.71849	21.18	0.04	R	021010.22249	NE,NH	Ber584	
5.794	21.03	0.02	R	021010.298	NE,NH	Mir595	
6.73576	21.396	0.04	R	021011.23976	NE,NH	Ber584	
6.75196	21.38	0.04	R	021011.25596	NE,NH	Ber584	
6.754	21.23	0.04	R	021011.258	NE,NH	Mir595	
6.897	21.3	0.03	R	021011.401	NE,NH	Mir595	
7.69081	21.47	0.09	R	021012.19514	NE,NH	Wil1652	
7.74176	21.614	0.04	R	021012.24576	NE,NH	Ber584	
7.763	21.4	0.04	R	021012.267	NE,NH	Mir595	
7.826	21.44	0.03	R	021012.33	NE,NH	Mir595	
8.61365	21.842	0.04	R	021013.11765	NE,NH	Ber584	
8.62087	21.844	0.04	R	021013.12487	NE,NH	Ber584	
10.793	22.18	0.07	R	021015.297	NE,NH	Mir595	
11.826	22.33	0.1	R	021016.33	NE,NH	Mir595	
12.438	22.38	0.2	R	021016.942	NE,NH	Ber584	2
20.766	23.1	0.06	R	021025.27	NE,NH	Mir595	
20.996	23.39	0.12	R	021025.5	NE,NH	Ber584	
51.621	23.85	0.08	R	021125.125	NE,NH	Mir595	1
52.673	23.87	0.08	R	021126.177	NE,NH	Mir595	1
0.026568	16.86	0.53	$R_{\rm C}$	021004.530892	NE,NH	Uem55	
0.031431	16.45	0.35	$R_{\rm C}$	021004.535755	NE,NH	Uem55	
0.037184	16.36	0.38	$R_{\rm C}$	021004.541508	NE,NH	Uem55	
0.04399	16.6	0.38	$R_{\rm C}$	021004.548314	NE,NH	Uem55	
0.072837	16.37	0.19	$R_{\rm C}$	021004.577161	NE,NH	Uem55	
0.07717627	16.371	0.054305	$R_{\rm C}$	021004.5815	NE,NH	Kaw5576	
0.086169	16.5	0.07	$R_{\rm C}$	021004.590493	NE,NH	Uem55	
0.08837627	16.343	0.051313	$R_{\rm C}$	021004.5927	NE,NH	Kaw5576	
0.09927627	16.608	0.06136	$R_{\rm C}$	021004.6036	NE,NH	Kaw5576	
0.101942	16.69	0.06	$R_{\rm C}$	021004.606266	NE,NH	Uem55	

Table 38—Continued

dt	mag	error	band	date	corrections	reference	remark
0.1110763	16.51	0.063159	$R_{\rm C}$	021004.6154	NE,NH	Kaw5576	
0.1176763	16.661	0.033257	$R_{\rm c}$	021004.622	NE,NH	Kaw5576	
0.1201763	16.724	0.035735	$R_{\rm c}$	021004.6245	NE,NH	Kaw5576	
0.120601	16.56	0.1	$R_{\rm c}$	021004.624925	NE,NH	Uem55	
0.121370	16.74	0.01	$R_{\rm C}$	021004.625694	NE,NH	Pan31	
0.1225763	16.649	0.034073	$R_{\rm C}$	021004.6269	NE,NH	Kaw5576	
0.1250763	16.686	0.033764	$R_{\rm C}$	021004.6294	NE,NH	Kaw5576	
0.1275763	16.695	0.034073	$R_{\rm C}$	021004.6319	NE,NH	Kaw5576	
0.127620	16.73	0.01	$R_{\rm C}$	021004.631944	NE,NH	Pan31	
0.1300763	16.773	0.03743	$R_{\rm C}$	021004.6344	NE,NH	Kaw5576	
0.1324763	16.749	0.036892	$R_{\rm C}$	021004.6368	NE,NH	Kaw5576	
0.133176	16.75	0.01	$R_{\rm C}$	021004.637500	NE,NH	Pan31	
0.1349763	16.739	0.03743	$R_{\rm C}$	021004.6393	NE,NH	Kaw5576	
0.1374763	16.735	0.032939	$R_{\rm C}$	021004.6418	NE,NH	Kaw5576	
0.138037	16.81	0.01	$R_{\rm C}$	021004.642361	NE,NH	Pan31	
0.1399763	16.794	0.033481	$R_{\rm C}$	021004.6443	NE,NH	Kaw5576	
0.142676	16.76	0.07	$R_{\rm C}$	021004.647000	NE,NH	Uem55	
0.1443763	16.762	0.027586	$R_{\rm C}$	021004.6487	NE,NH	Kaw5576	
0.150537	16.87	0.01	$R_{\rm C}$	021004.654861	NE,NH	Pan31	
0.1561763	16.789	0.032125	$R_{\rm C}$	021004.6605	NE,NH	Kaw5576	
0.1585763	16.791	0.034598	$R_{\rm C}$	021004.6629	NE,NH	Kaw5576	
0.1614763	16.871	0.027313	$R_{\rm C}$	021004.6658	NE,NH	Kaw5576	
0.1647763	16.973	0.030741	$R_{\rm C}$	021004.6691	NE,NH	Kaw5576	
0.168792	16.91	0.08	$R_{\rm C}$	021004.673116	NE,NH	Uem55	
0.1765763	17.032	0.034322	$R_{\rm C}$	021004.6809	NE,NH	Kaw5576	
0.1789763	17.134	0.04041	$R_{\rm C}$	021004.6833	NE,NH	Kaw5576	
0.179727	17.06	0.01	$R_{\rm C}$	021004.684051	NE,NH	Pan31	
0.1814763	17.071	0.036892	$R_{\rm C}$	021004.6858	NE,NH	Kaw5576	
0.1843763	17.064	0.032156	$R_{\rm C}$	021004.6887	NE,NH	Kaw5576	
0.186370	17.12	0.01	$R_{\rm C}$	021004.690694	NE,NH	Pan31	
0.1927763	17.12	0.038419	$R_{\rm c}$	021004.6971	NE,NH	Kaw5576	
0.192933	17.22	0.01	$R_{\rm C}$	021004.697257	NE,NH	Pan31	
0.198801	17.27	0.01	$R_{\rm C}$	021004.703125	NE,NH	Pan31	

Table 38—Continued

dt	mag	error	band	date	corrections	reference	remark
0.199688	17.17	0.13	$R_{\rm C}$	021004.704012	NE,NH	Uem55	
0.2006763	17.219	0.041304	$R_{\rm c}$	021004.705	NE,NH	Kaw5576	
0.2034763	17.184	0.042202	$R_{\rm c}$	021004.7078	NE,NH	Kaw5576	
0.204889	17.28	0.02	$R_{\rm c}$	021004.709213	NE,NH	Pan31	
0.210676	17.31	0.02	$R_{\rm c}$	021004.715000	NE,NH	Pan31	
0.2114763	17.297	0.050853	$R_{\rm C}$	021004.7158	NE,NH	Kaw5576	
0.216648	17.41	0.02	$R_{\rm c}$	021004.720972	NE,NH	Pan31	
0.2193763	17.483	0.064969	$R_{\rm C}$	021004.7237	NE,NH	Kaw5576	
0.2278763	17.476	0.046755	$R_{\rm C}$	021004.7322	NE,NH	Kaw5576	
0.236239	17.26	0.23	$R_{\rm C}$	021004.740563	NE,NH	Uem55	
0.2407763	17.591	0.059883	$R_{\rm C}$	021004.7451	NE,NH	Kaw5576	
0.244982	17.73	0.01	$R_{\rm C}$	021004.749306	NE,NH	Pan31	
0.249114	17.76	0.02	$R_{\rm C}$	021004.753438	NE,NH	Pan31	
0.249843	17.74	0.01	$R_{\rm C}$	021004.754167	NE,NH	Pan31	
0.2537763	17.792	0.066453	$R_{\rm C}$	021004.7581	NE,NH	Kaw5576	
0.254704	17.77	0.01	$R_{\rm C}$	021004.759028	NE,NH	Pan31	
0.258870	17.81	0.01	$R_{\rm C}$	021004.763194	NE,NH	Pan31	
0.2664763	17.799	0.060696	$R_{\rm C}$	021004.7708	NE,NH	Kaw5576	
0.28609	17.89	0.05	$R_{\rm C}$	021004.79042	NE,NH	Bar1606	
0.2917763	17.863	0.076505	$R_{\rm C}$	021004.7961	NE,NH	Kaw5576	
0.3044763	17.95	0.11413	$R_{\rm C}$	021004.8088	NE,NH	Kaw5576	
0.30944	17.88	0.05	$R_{\rm C}$	021004.81376	NE,NH	Bar1606	
0.321093	17.93	0.01	$R_{\rm C}$	021004.825417	NE,NH	Pan31	
0.3234	17.7		$R_{\rm C}$	021004.8278	NE,NH	Oks1570	
0.32415	17.9		$R_{\rm C}$	021004.82847	NE,NH	Oks1591	
0.3297763	18.105	0.21265	$R_{\rm C}$	021004.8341	NE,NH	Kaw5576	
0.33281	18.06	0.05	$R_{\rm C}$	021004.83713	NE,NH	Bar1606	
0.3432	18.02	0.03	$R_{\rm C}$	021004.8472	NE,NH	Hol125	
0.3477	18.04	0.03	$R_{\rm C}$	021004.8517	NE,NH	Hol125	
0.352343	18.07	0.01	$R_{\rm C}$	021004.856667	NE,NH	Pan31	
0.354704	18.06	0.02	$R_{\rm C}$	021004.859028	NE,NH	Pan31	
0.35786	18.09	0.05	$R_{\rm C}$	021004.86219	NE,NH	Bar1606	
0.38734	17.96		$R_{\rm C}$	021004.89167	NE,NH	Oks1591	

Table 38—Continued

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$\frac{dt}{dt}$	mag	error	band	date	corrections	reference	remark
0.38847	18.17	0.05	$R_{\rm C}$	021004.89279	NE,NH	Bar1606	
0.40401	18.22		R_{c}	021004.90833	NE,NH	Oks1591	
0.4063	18.23	0.03	$R_{\rm C}$	021004.9103	NE,NH	Hol125	
0.41153	18.35	0.05	$R_{\rm c}$	021004.91586	NE,NH	Bar1606	
0.416486	18.29	0.02	$R_{\rm C}$	021004.920810	NE,NH	Pan31	
0.4297	18.37		$R_{\rm C}$	021004.93403	NE,NH	Oks1591	
0.430398	18.35	0.04	$R_{\rm C}$	021004.934722	NE,NH	Pan31	
0.435954	18.31	0.02	$R_{\rm C}$	021004.940278	NE,NH	Pan31	
0.4405	18.32	0.03	$R_{\rm C}$	021004.9445	NE,NH	Hol125	
0.440815	18.38	0.02	$R_{\rm C}$	021004.945139	NE,NH	Pan31	
0.449843	18.37	0.02	$R_{\rm C}$	021004.954167	NE,NH	Pan31	
0.45963	18.39	0.05	$R_{\rm C}$	021004.96396	NE,NH	Bar1606	
0.463037	18.48	0.03	$R_{\rm C}$	021004.967361	NE,NH	Pan31	
0.47206	18.41		$R_{\rm C}$	021004.97639	NE,NH	Oks1591	
0.4827	18.54	0.05	$R_{\rm C}$	021004.98703	NE,NH	Bar1606	
0.49218	18.55	0.03	$R_{\rm C}$	021004.9965	NE,NH	deU544	
0.4947	18.6	0.03	$R_{\rm C}$	021004.9987	NE,NH	Hol125	
0.49782	18.57	0.05	$R_{\rm C}$	021005.00214	NE,NH	Bar1606	
0.54012	18.83		$R_{\rm C}$	021005.04444	NE,NH	Oks1591	
0.55679	19		$R_{\rm C}$	021005.06111	NE,NH	Oks1591	3
0.5598	18.84	0.02	$R_{\rm C}$	021005.0638	NE,NH	Hol125	
0.5647	18.86	0.03	R_{c}	021005.0687	NE,NH	Hol125	
0.58456	19		R_{c}	021005.08889	NE,NH	Oks1591	3
0.61028		0.02	$R_{\rm C}$	021005.1146	NE,NH	deU544	
0.6153	18.98	0.02	R_{c}	021005.1193	NE,NH	Hol125	
0.6224	18.98	0.02	R_{c}	021005.1264	NE,NH	Hol125	
0.6292	19.01	0.02	$R_{\rm C}$	021005.1332	NE,NH	Hol125	
0.6362	19.02	0.03	R_{c}	021005.1402	NE,NH	Hol125	
0.643	19.06	0.02	R_{c}	021005.147	NE,NH	Hol125	
0.6501	19.08	0.03	$R_{\rm C}$	021005.1541	NE,NH	Hol125	
0.6569	19.09	0.02	$R_{\rm C}$	021005.1609	NE,NH	Hol125	
0.6638	19.13	0.02	R_{c}	021005.1678	NE,NH	Hol125	
0.6706	19.11	0.02	$R_{\rm C}$	021005.1746	NE,NH	Hol125	

Table 38—Continued

dt	mag	error	band	date	corrections	reference	remark
0.6762	19.11	0.02	$R_{\rm C}$	021005.1802	NE,NH	Hol125	
0.682	19.13	0.02	$R_{\rm C}$	021005.186	NE,NH	Hol125	
0.6889	19.14	0.03	$R_{\rm c}$	021005.1929	NE,NH	Hol125	
0.68948	19.12	0.03	$R_{\rm c}$	021005.1938	NE,NH	deU544	
0.6922	19.2		$R_{\rm C}$	021005.19653	NE,NH	Oks1591	
0.96568	19.35	0.04	$R_{\rm C}$	021005.4700	NE,NH	deU544	
0.99568	19.31	0.04	$R_{\rm C}$	021005.5000	NE,NH	deU544	
1.112447	19.28	0.02	$R_{\rm C}$	021005.616771	NE,NH	Pan31	
1.129252	19.34	0.02	$R_{\rm C}$	021005.633576	NE,NH	Pan31	
1.137343	19.42	0.02	$R_{\rm C}$	021005.641667	NE,NH	Pan31	
1.198928	19.42	0.01	$R_{\rm C}$	021005.703252	NE,NH	Pan31	
1.231718	19.46	0.02	$R_{\rm C}$	021005.736042	NE,NH	Pan31	
1.281394	19.51	0.01	$R_{\rm C}$	021005.785718	NE,NH	Pan31	
1.289032	19.55	0.01	$R_{\rm C}$	021005.793356	NE,NH	Pan31	
1.342470	19.59	0.01	$R_{\rm C}$	021005.846794	NE,NH	Pan31	
1.3501	19.61	0.03	$R_{\rm C}$	021005.8541	NE,NH	Hol125	
1.3581	19.62	0.03	$R_{\rm C}$	021005.8621	NE,NH	Hol125	
1.381602	19.62	0.02	$R_{\rm C}$	021005.885926	NE,NH	Pan31	
1.382482	19.73	0.02	$R_{\rm C}$	021005.886806	NE,NH	Pan31	
1.404380	19.70	0.02	$R_{\rm C}$	021005.908704	NE,NH	Pan31	
1.4318	19.69	0.03	$R_{\rm C}$	021005.9358	NE,NH	Hol125	
1.447748	19.72	0.02	$R_{\rm C}$	021005.952072	NE,NH	Pan31	
1.47468	19.67	0.06	$R_{\rm C}$	021005.9790	NE,NH	deU544	
1.49328	19.73	0.03	$R_{\rm C}$	021005.9976	NE,NH	deU544	
1.5052	19.76	0.03	$R_{\rm C}$	021006.0092	NE,NH	Hol125	
1.54568	19.87	0.06	$R_{\rm C}$	021006.0500	NE,NH	deU544	
1.5577	19.72	0.04	$R_{\rm C}$	021006.0620	NE,NH	deU544	
1.6181	19.91	0.03	$R_{\rm C}$	021006.1221	NE,NH	Hol125	
1.6693	19.94	0.03	$R_{\rm C}$	021006.1733	NE,NH	Hol125	
1.7045	19.92	0.03	$R_{\rm C}$	021006.2085	NE,NH	Hol125	
2.144287	20.04	0.02	$R_{\rm C}$	021006.648611	NE,NH	Pan31	
2.196648	19.98	0.02	$R_{\rm C}$	021006.700972	NE,NH	Pan31	
2.303674	20.08	0.02	$R_{\rm C}$	021006.807998	NE,NH	Pan31	

Table 38—Continued

dt	mag	error	band	date	corrections	reference	remark
2.30968	20.2	0.08	$R_{\rm C}$	021006.8140	NE,NH	deU544	
2.3308	20.03	0.03	$R_{\rm c}$	021006.8348	NE,NH	Hol125	
2.331556	20.09	0.01	$R_{\rm C}$	021006.835880	NE,NH	Pan31	
2.3593	20.1	0.03	$R_{\rm C}$	021006.8633	NE,NH	Hol125	
2.4135	20.13	0.03	$R_{\rm C}$	021006.9175	NE,NH	Hol125	
2.4215	20.12	0.03	$R_{\rm C}$	021006.9255	NE,NH	Hol125	
2.422597	20.15	0.02	$R_{\rm C}$	021006.926921	NE,NH	Pan31	
2.46438	20.13	0.03	$R_{\rm C}$	021006.9687	NE,NH	deU544	
2.5351	20.16	0.03	$R_{\rm C}$	021007.0391	NE,NH	Hol125	
3.316532	20.38	0.02	$R_{\rm C}$	021007.820856	NE,NH	Pan31	
3.3411	20.4	0.03	$R_{\rm C}$	021007.8451	NE,NH	Hol125	
3.3491	20.4	0.03	$R_{\rm C}$	021007.8531	NE,NH	Hol125	
3.383523	20.37	0.02	$R_{\rm C}$	021007.887847	NE,NH	Pan31	
3.3885	20.43	0.03	$R_{\rm C}$	021007.8925	NE,NH	Hol125	
3.394287	20.50	0.09	$R_{\rm C}$	021007.898611	NE,NH	Pan31	
3.4439	20.42	0.03	$R_{\rm C}$	021007.9479	NE,NH	Hol125	
3.444287	20.43	0.13	$R_{\rm C}$	021007.948611	NE,NH	Pan31	
3.48628	20.39	0.06	$R_{\rm C}$	021007.9906	NE,NH	deU544	
3.5111	20.43	0.03	$R_{\rm C}$	021008.0151	NE,NH	Hol125	
3.6372	20.49	0.03	$R_{\rm C}$	021008.1412	NE,NH	Hol125	
4.140815	20.69	0.04	$R_{\rm C}$	021008.645139	NE,NH	Pan31	
4.265167	20.71	0.03	$R_{\rm C}$	021008.769491	NE,NH	Pan31	
4.288975	20.72	0.03	$R_{\rm C}$	021008.793299	NE,NH	Pan31	
4.3474	20.7	0.03	$R_{\rm C}$	021008.8514	NE,NH	Hol125	
4.40025	20.9	0.3	$R_{\rm C}$	021008.90457	NE,NH	Bar1654	
4.4209	20.77	0.03	$R_{\rm C}$	021008.9249	NE,NH	Hol125	
4.5007	20.81	0.03	$R_{\rm C}$	021009.0047	NE,NH	Hol125	
4.5686	20.83	0.02	$R_{\rm C}$	021009.0726	NE,NH	Hol125	
4.6394	20.85	0.03	$R_{\rm C}$	021009.1434	NE,NH	Hol125	
4.80168	20.87	0.06	$R_{\rm C}$	021009.3060	NE,NH	deU544	
5.222910	20.96	0.03	$R_{\rm C}$	021009.727234	NE,NH	Pan31	
5.261995	20.99	0.02	$R_{\scriptscriptstyle \mathrm{C}}$	021009.766319	NE,NH	Pan31	
5.295676	21.12	0.06	$R_{\rm C}$	021009.800000	NE,NH	Pan31	

Table 38—Continued

dt	mag	error	band	date	corrections	reference	remark
5.305745	20.95	0.02	$R_{\rm C}$	021009.810069	NE,NH	Pan31	
5.5719	21.05	0.02	$R_{\rm C}$	021010.0759	NE,NH	Hol125	
5.5982	21.08	0.02	$R_{\rm C}$	021010.1022	NE,NH	Hol125	
5.6007	21.05	0.05	$R_{\rm C}$	021010.105	NE,NH	deU544	
5.85168	21.14	0.07	$R_{\rm C}$	021010.356	NE,NH	deU544	
6.201926	21.29	0.06	$R_{\rm C}$	021010.706250	NE,NH	Pan31	
6.207181	21.23	0.03	$R_{\rm C}$	021010.711505	NE,NH	Pan31	
6.228627	21.22	0.03	$R_{\rm C}$	021010.732951	NE,NH	Pan31	
6.80068	21.35	0.1	$R_{\rm C}$	021011.305	NE,NH	deU544	
7.217896	21.55	0.11	$R_{\rm C}$	021011.722220	NE,NH	Pan31	
7.295074	21.44	0.03	$R_{\rm C}$	021011.799398	NE,NH	Pan31	
7.342343	21.43	0.03	$R_{\rm C}$	021011.846667	NE,NH	Pan31	
9.171289	21.91	0.05	$R_{\rm C}$	021013.675613	NE,NH	Pan31	
9.212667	21.93	0.05	$R_{\rm C}$	021013.716991	NE,NH	Pan31	
9.252616	21.71	0.08	$R_{\rm C}$	021013.756940	NE,NH	Pan31	
9.5391	21.9	0.02	$R_{\rm C}$	021014.0431	NE,NH	Hol125	
9.5478	21.95	0.03	$R_{\rm C}$	021014.0518	NE,NH	Hol125	
9.556	21.93	0.03	$R_{\rm C}$	021014.06	NE,NH	Hol125	
10.155396	21.87	0.11	$R_{\rm C}$	021014.659720	NE,NH	Pan31	
10.269553	22.04	0.07	$R_{\rm C}$	021014.773877	NE,NH	Pan31	
10.311602	22.09	0.06	$R_{\rm C}$	021014.815926	NE,NH	Pan31	
11.343246	22.22	0.07	$R_{\rm C}$	021015.847570	NE,NH	Pan31	
11.348456	22.48	0.52	$R_{\rm C}$	021015.852780	NE,NH	Pan31	
12.184414	22.46	0.15	$R_{\rm C}$	021016.688738	NE,NH	Pan31	
14.5582	22.7	0.16	$R_{\rm C}$	021019.0622	NE,NH	Hol125	
23.493	23.22	0.08	$R_{\rm C}$	021027.997	NE,NH	Hol125	
30.5118	23.54	0.11	$R_{\rm C}$	021104.0158	NE,NH	Hol125	
56.1571	24.36	0.18	$R_{\rm C}$	021129.66146	NE,NH	Fat1717	
56.18868	24.29	0.18	$R_{\rm C}$	021129.693	NE,NH	deU544	
362.469	24.00	$+0.33 \\ -0.25$	$R_{\rm C}$	031001.973	NE,NH	Jak362	6
	24.21	0.04	$R_{\rm C}$		NE,NH	deU544	5

Bal1580 = Balman, S. et al. 2002, GCN 1580

Bar1606 = Barsukova, E. A. et al. 2002, GCN 1606

Bar1654 = Barsukova, E. A. et al. 2002, GCN 1654

Ber584 = Bersier, D. et al. 2003, ApJ, 584, L43

Coo1584 = Cool, R. J. et al. 2002, GCN 1584

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Jak362 = Jakobsson, P. et al. 2005, MNRAS, 362, 245

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Klo1614 = Klotz, A. et al. 2002, GCN 1614

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Lin1638 = Lindsay, K. et al. 2002, GCN 1638

Mas1621 = Masi, G. et al. 2002, GCN 1621

Mir595 = Mirabal, N. et al. 2003, ApJ, 595, 935

Oks1570 = Oksanen, A. et al. 2002, GCN 1570

Oks1591 = Oksanen, A. et al. 2002, GCN 1591

Pan31 = Pandey, S. B. et al. 2003, BASI, 31, 19

Uem55 = Uemura, M. et al. 2003, PASJ, 55, L31

Wil1652 = Williams, G. et al. 2002, GCN 1652

Zha1577 = Zharikov, S. et al. 2002, GCN 1577

Note. —

Early upper limits from Torii, K. et al. 2002 (GCN 1589) are not included as the afterglow was detected in the stacked image and reported in Fox422.

- 1 = Host galaxy
- 2 = GCN Data as given by Ber584
- 3 = unfiltered and transformed to R_{c} system
- 4 = unfiltered, assumed R fits best
- 5 = Host galaxy magnitude, estimated from HyperZ starburst template
- 6 = Converted from AB Magnitude

Table 39. **GRB 021211**

dt	mag	error	band	date	corrections	reference	remark
0.00150	14.671	0.011	R	021211.4727	NE,NH	Li586	2
0.0017	15.2		R	021211.4729	NE,NH	Par1736	
0.00197	15.24	0.07	R	021211.4732	NE,NH	Nys474	
0.00204	15.136	0.011	R	021211.47324	NE,NH	Li586	2
0.00256	15.54	0.011	R	021211.47376	NE,NH	Li586	2
0.00311	15.939	0.016	R	021211.47431	NE,NH	Li586	2
0.00335	16.038	0.018	R	021211.47455	NE,NH	Li586	2
0.00359	16.117	0.019	R	021211.47479	NE,NH	Li586	2
0.00387	16.26	0.12	R	021211.4751	NE,NH	Nys474	
0.00404	16.35	0.031	R	021211.47524	NE,NH	Li586	2
0.00429	16.449	0.024	R	021211.47549	NE,NH	Li586	2
0.00453	16.555	0.05	R	021211.47573	NE,NH	Li586	2
0.00498	16.713	0.034	R	021211.47618	NE,NH	Li586	2
0.00522	16.787	0.028	R	021211.47642	NE,NH	Li586	2
0.00546	16.925	0.043	R	021211.47666	NE,NH	Li586	2
0.00591	16.946	0.033	R	021211.47711	NE,NH	Li586	2
0.00616	16.991	0.033	R	021211.47736	NE,NH	Li586	2
0.00639	17.066	0.047	R	021211.47759	NE,NH	Li586	2
0.00685	17.154	0.049	R	021211.47805	NE,NH	Li586	2
0.00710	17.234	0.042	R	021211.4783	NE,NH	Li586	2
0.00733	17.248	0.038	R	021211.47853	NE,NH	Li586	2
0.00805	17.348	0.022	R	021211.47925	NE,NH	Li586	2
0.00899	17.562	0.024	R	021211.48019	,	Li586	2
0.01059	17.76	0.021	R	021211.48179	,	Li586	2
0.01380	18.081	0.016	R	021211.485	NE,NH	Li586	2
0.0142	18.293		R	021211.4854	•	Fox586	2
0.01875	18.462	0.026	R	021211.48995	NE,NH	Li586	2
0.025	18.813	0.045	R	021211.4962	NE,NH	Fox586	2
0.02507	18.828	0.178	R	021211.49627	NE,NH	Li586	2
0.0285	19.093	0.059	R	021211.4997	NE,NH	Fox586	2
0.0352	19.343	0.071	R	021211.5064	NE,NH	Fox586	2
0.0408	19.286	0.068	R	021211.512	NE,NH	Fox586	2
0.0427	19.479	0.077	R	021211.5139	NE,NH	Fox586	2

Table 39—Continued

dt	mag	error	band	date	corrections	reference	remark
0.0506	19.529	0.082	R	021211.5218	NE,NH	Fox586	2
0.0539	19.598	0.086	R	021211.5251	NE,NH	Fox586	2
0.0558	19.755	0.102	R	021211.527	NE,NH	Fox586	2
0.062	19.95	0.11	R	021211.5332	NE,NH	Fox586	2
0.0687	20.091	0.13	R	021211.5399	NE,NH	Fox586	2
0.09210	20.187	0.322	\mathbf{R}	021211.5633	NE,NH	Li586	2
0.09853	20.204	0.195	R	021211.56973	NE,NH	Li586	2
0.10042	20.087	0.246	R	021211.57162	NE,NH	Li586	2
0.10367	20.178	0.168	R	021211.57487	NE,NH	Li586	2
0.2371	21.096	0.128	R	021211.7083	NE,NH	Fox586	
0.48707	> 22.4		R	021211.9583	NE,NH	Nys474	
0.7975	22.8		R	021212.2688	NE,NH	Lev1758	
0.8583	23.20	0.18	R	021212.3296	NE,NH	McL1750	
1.8031	23.1		R	021213.2743	NE,NH	Lev1758	
17.60	> 25.0		R	021227.09	NE,NH	Tes1821	
28.83	24.1	0.2	R	030109.30	NE,NH	Tes1821	1
29.23	24.48	0.18	R	030109.7	NE,NH	Del406	1
29.76	24.5	0.2	R	030110.23	NE,NH	Tes1821	1
33.86	24.6	0.1	R	030114.33	NE,NH	Tes1821	1
34.86	25.07	0.15	R	030115.33	NE,NH	Del406	1
78.55	25.13	0.12	R	030228.02	NE,NH	Del406	1
87.54	25.35	0.17	R	030309.01	NE,NH	Del406	1
0.001038	14.06	0.08	$R_{\rm C}$	021211.472265	NE,NH	Ves325	
0.002244	15.36	0.25	$R_{\rm C}$	021211.473471	NE,NH	Ves325	
0.0871	21		$R_{\rm C}$	021211.5583	NE,NH	Kin1749	
0.04017	19.52	0.13	$R_{\rm C}$	021211.5114	NE,NH	Nys474	
0.08127	20.74	0.42	$R_{\rm C}$	021211.5525	NE,NH	Nys474	
0.08537	20.7	0.16	$R_{\rm C}$	021211.5566	NE,NH	Nys474	
0.2837	21.9	0.21	$R_{\rm C}$	021211.7549	NE,NH	Pan408	
0.3080	21.9	0.16	$R_{\rm C}$	021211.7792	NE,NH	Pan408	
0.3928	22.1	0.18	$R_{\rm C}$	021211.8640	NE,NH	Pan408	
0.4018	22.1	0.18	$R_{\rm C}$	021211.8730	NE,NH	Pan408	

Table 39—Continued

dt	mag	error	band	date	corrections	reference	remark
0.4110	22.1	0.14	R_{c}	021211.8822	NE,NH	Pan408	
0.4202	22.4	0.24	$R_{\rm C}$	021211.8914	NE,NH	Pan408	
0.4281	22.5	0.21	$R_{\rm C}$	021211.8993	NE,NH	Pan408	
0.4606	22.2	0.18	$R_{\rm C}$	021211.9318	NE,NH	Pan408	
0.88794	22.88	0.09	$R_{\rm C}$	021212.35917	NE,NH	Hol128	
21.59365	24.93	0.17	$R_{\rm C}$	030102.06488	NE,NH	Hol128	
48.80839	25.07	0.12	$R_{\rm C}$	030129.27962	NE,NH	Hol128	
1.0468	23.416	0.073	r'	021212.518	NE,NH	Fox586	

Del406 = Della Valle, M. et al. 2003, A&A, 406, L33

Fox586 = Fox, D. W. et al. 2003, ApJ, 586, L5

Hol128 = Holland, S. T. et al. 2004, AJ, 128, 1955

Kin1749 = Kinugasa, K. et al. 2002, GCN 1749

Lev1758 = Levan, A. et al. 2002, GCN 1758

Li586 = Li, W. et al. 2003, Apj, 586, L9

McL1750 = McLeod, B. et al. 2002, GCN 1750

Nys474 = Nysewander, M. C. et al. 2005, ApJ, submitted (astro-ph/0505474)

Pan408 = Pandey, S. B. et al. 2003, A&A, 408, L21

Par1736 = Park, H. S. et al. 2002, GCN 1736

Tes1821 = Testa, V. et al. 2003, GCN 1821

Ves325 = Vestrand, W. T. et al. 2004, Astron. Nachr., 325, 549

Note. —

1 = SN Bump

2 = unfiltered observation photometered against R-band calibration

Table 40. **GRB 030115**

dt	mag	error	band	date	corrections	reference	remark
0.000269	>10		R	030115.14094	NE,NH	Cas1826	
0.079	>20		R	030115.220	NE,NH	Cas1807	
0.085	21.9	0.3	R	030115.226	NE,NH	Dul062	1
0.134	>19.8		R	030115.274	NE,NH	Fla1806	
0.236	>20		R	030115.377	NE,NH	Mas1811	
14.26	25.2	0.3	R	030129.4	NE,NH	Dul062	2
0.17	>20		r'	030115.31	NE,NH	Bla1808	

Bla1808 = Blake, C. et al. 2003, GCN 1808

Cas1807 = Castro-Tirado, A. J. et al. 2003, GCN 1807

Cas1826 = Castro-Tirado, A. J. et al. 2003, GCN 1826

Dul062 = Dullighan, A. et al. 2004, astro-ph/0401062 v1

Fla1806 = Flaccomio, E. et al. 2003, GCN 1806

Mas1811 = Masetti, N. et al. 2003, GCN 1811

Note. —

^{1 =} result reported in GCN 1823 (Masetti, N. et al. 2003) and recalibrated in Dul062

^{2 =} result reported in GCN 1848 (Garnavich, P. et al. 2003) and recalibrated in Dul062

Table 41. **GRB 030131**

dt	mag	error	band	date	corrections	reference	remark
0.151	21.2		R	030131.469	NE,NH	Pri1857	
0.1682	> 20.5		R	030131.4869	NE,NH	Gra1839	
0.337	> 19.7		R	030131.6558	NE,NH	Ish1845	
0.4677	>20.0		R	030131.7865	NE,NH	Ish1845	
1.117	23.5		R	030201.435	NE,NH	Pri1857	
3.826	> 22.5	0.5	R	030204.145	NE,NH	Klo1852	
0.1482	> 19.5		CR	030131.4669	NE,NH	Cho1837	

 $Cho1837 = Chornock, R. \ et \ al. \ 2003, GCN \ 1837$

Gra1839 = Grav, T. et al. 2003, GCN 1839

Ish1845 = Ishiguro, M. et al. 2003, GCN 1845

Klo1852 = Klose, S. et al. 2003, GCN 1852

 $\mathrm{Pri}1857=\mathrm{Price},\,\mathrm{P.}$ A. et al. 2003, GCN 1857

Table 42. **GRB 030226**

dt	mag	error	band	date	corrections	reference	remark
0.000162	>11.5		R	030226.15748	NE,NH	Cas1887	
0.002998	>11.5		R	030226.16031	NE,NH	Cas1887	
0.005833	>11.5		R	030226.16315	NE,NH	Cas1887	
0.132085	17.8		\mathbf{R}	030226.29	NE,NH	And1882	
0.147085	18.44	0.05	\mathbf{R}	0030226.305	NE,NH	Gar1885	
0.2007	18.87	0.03	\mathbf{R}	030226.3580	NE,NH	Klo128	
0.492085	19	0.2	\mathbf{R}	030226.65	NE,NH	And1884	
0.512085	19.2		R	030226.67	NE,NH	Pri1890	
0.621252	19.5	0.2	R	030226.7792	NE,NH	Rum1908	
0.6444	19.9	0.05	R	030226.8017	NE,NH	Klo128	
0.7795	20.22	0.03	R	030226.9368	NE,NH	Klo128	
0.8726	20.44	0.03	R	030227.0299	NE,NH	Klo128	
0.89243	20.37	0.16	R	030227.05035	NE,NH	Rum1929	
0.897606	20.4		R	030227.05552	NE,NH	Gua1892	
0.9274	20.57	0.03	R	030227.0847	NE,NH	Klo128	
0.9837	20.63	0.04	\mathbf{R}	030227.1410	NE,NH	Klo128	
1.012085	20.65	0.1	R	030227.17	NE,NH	von 1902	
1.054085	20.64	0.02	\mathbf{R}	030227.212	NE,NH	Cov1909	
1.0541	20.64	0.05	R	030227.2114	NE,NH	Klo128	
1.0545	20.76	0.05	R	030227.2118	NE,NH	Klo128	
1.0701	20.7	0.03	R	030227.2274	NE,NH	Klo128	
1.0729	20.68	0.03	R	030227.2302	NE,NH	Klo128	
1.075	20.84	0.04	R	030227.2323	NE,NH	Klo128	
1.1026	20.79	0.05	R	030227.2599	NE,NH	Klo128	
1.103085	20.79	0.02	R	030227.261	NE,NH	Cov1909	
1.1989	20.99	0.02	R	030227.3562	NE,NH	Klo128	
1.9851	21.89	0.13	R	030228.1424	NE,NH	Klo128	
4.0937	24.22	0.08	R	030302.2510	NE,NH	Klo128	
7.05	25.26	0.15	R	030305.2073	NE,NH	Klo128	
15.0156	>26.20		R	030313.1729	NE,NH	Klo128	
0.482485	19.6	0.06	$R_{\rm C}$	030226.6398	NE,NH	Pan417	
0.491085	19.64	0.05	$R_{\rm C}$	030226.6484	NE,NH	Pan417	

Table 42—Continued

dt	mag	error	band	date	corrections	reference	remark
0.500185	19.55	0.05	$R_{\rm C}$	030226.6575	NE,NH	Pan417	
0.510085	19.52	0.04	$R_{\rm C}$	030226.6674	NE,NH	Pan417	
0.510485	19.62	0.05	$R_{\rm C}$	030226.6678	NE,NH	Pan417	
0.523185	19.63	0.04	$R_{\rm C}$	030226.6805	NE,NH	Pan417	
0.535185	19.67	0.04	$R_{\rm C}$	030226.6925	NE,NH	Pan417	
0.549185	19.76	0.04	$R_{\rm C}$	030226.7065	NE,NH	Pan417	
0.564285	19.78	0.04	$R_{\rm C}$	030226.7216	NE,NH	Pan417	
0.591985	19.74	0.04	$R_{\rm C}$	030226.7493	NE,NH	Pan417	
0.656585	19.84	0.04	$R_{\rm C}$	030226.8139	NE,NH	Pan417	
0.714185	20.22	0.06	$R_{\rm C}$	030226.8715	NE,NH	Pan417	
0.714185	20.11	0.04	$R_{\rm C}$	030226.8715	NE,NH	Pan417	
0.739485	20.23	0.06	$R_{\rm C}$	030226.8968	NE,NH	Pan417	
0.835885	20.45	0.06	$R_{\rm C}$	030226.9932	NE,NH	Pan417	
1.650085	21.98	0.14	$R_{\rm C}$	030227.8074	NE,NH	Pan417	
1.717685	22	0.15	$R_{\rm C}$	030227.875	NE,NH	Pan417	
1.762085	21.75	0.18	$R_{\rm C}$	030227.92	NE,NH	Fat1925	
2.832085	22.96	0.12	$R_{\rm C}$	030228.99	NE,NH	Fat1925	
3.762085	23.39	0.09	$R_{\rm C}$	030301.92	NE,NH	Fat1925	
391.3	>24.72		$R_{\scriptscriptstyle \rm C}$	040323.5	NE,NH	Jak542	1

And1882 = Ando, M. et al. 2003, GCN 1882

And1884 = Ando, M. et al. 2003, GCN 1884

Cas1887 = Castro-Tirado, A. J. et al. 2003, GCN 1887

Cov1909 = Covino, S. et al. 2003, GCN 1909

Fat1925 = Fatkhullin, T. et al. 2003, GCN 1925

Gar1885 = Garnavich, P. et al. 2003, GCN 1885

Gua1892 = Guarnieri, A. et al. 2003, GCN 1892

Jak362 = Jakobsson, P. et al. 2005, MNRAS, 362, 245

Klo128 = Klose, S. et al. 2004, AJ, 128, 1942

Pan417 = Pandey, S. B. et al. 2004, A&A, 417, 919

Pri1890 = Price, P. A. et al. 2003, GCN 1890

Rum1908 = Rumyantsev, V. et al. 2003, GCN 1908

Rum1929 = Rumyantsev, V. et al. 2003, GCN 1929

von1902 = von Braun, K. et al. 2003, GCN 1902

Note. —

Guarnieri, A. et al. 2003 (GCN 1940) details BVRI observation times, but the data is not publicly available and is therefore missing in this listing.

1 =Converted from AB Magnitude

Table 43. **GRB 030227**

dt	mag	error	band	date	corrections	reference	remark
0.0566	>18.0		R	030227.4191	NE,NH	Uem1899	
0.0857	>20.3		R	030227.4483	NE,NH	Izu1900	
0.0909	>21.1		R	030227.4535	NE,NH	Ura1920	
0.1715	>20.9		R	030227.5340	NE,NH	Izu1900	
0.1715	>20.6		R	030227.5340	NE,NH	Ura1920	
0.2156	22.0	0.3	\mathbf{R}	030227.5781	NE,NH	Cas411	
0.348	> 19.5		R	030227.7105	NE,NH	Pav1926	
0.4041	> 21.5		\mathbf{R}	030227.7667	NE,NH	Cas411	
0.5020	23.10	0.16	\mathbf{R}	030227.8646	NE,NH	Cas411	
0.6121	23.19	0.18	\mathbf{R}	030227.9747	NE,NH	Cas411	
0.6805	> 21		\mathbf{R}	030228.0430	NE,NH	Bou1906	
0.879	23.5		R	030228.242	NE,NH	Sod1907	
1.4871	24.1	0.2	\mathbf{R}	030228.8497	NE,NH	Cas411	
1.5889	> 23.9		\mathbf{R}	030228.9514	NE,NH	Cas411	
1.6347	24.75	0.25	R	030228.9972	NE,NH	Cas411	
0.04097	>20.3		CR	030227.40351	NE,NH	Tor1936	
0.06021	>20.4		CR	030227.42274	NE,NH	Tor 1936	
0.348	> 19.2		CR	030227.7107	NE,NH	Pav1926	
0.406	>21		CR	030227.7681	NE,NH	Hud1922	

Bou1906 = Bourban, G. et al. 2003, GCN 1906

Cas411 = Castro-Tirado, A. J. et al. 2003, A&A, 411, L315

Hud1922 = Hudec, R. et al. 2003, GCN 1922

 $\mathrm{Izu1900} = \mathrm{Izumura},\,\mathrm{H.\,\,et\,\,al.\,\,2003},\,\mathrm{GCN\,\,1900}$

Pav1926 = Pavlenko, E. et al. 2003, GCN 1926

Sod1907 = Soderberg, A. M. et al. 2003, GCN 1907

Tor 1936 = Torii, K. et al. 2003, GCN 1936

 $\begin{array}{l} {\rm Uem1899 = Uemura, \ M. \ et \ al. \ 2003, \ GCN \ 1899} \\ {\rm Ura1920 = Urata, \ Y. \ et \ al. \ 2003, \ GCN \ 1920} \end{array}$

Table 44. **GRB 030323**

dt	mag	error	band	date	corrections	reference	remark
0.3333	18.68	0.06	R	030324.2479	NE,NH	Smi1952	1
0.3500	18.82	0.06	\mathbf{R}	030324.2646	NE,NH	Smi1952	1
0.3653	18.88	0.06	\mathbf{R}	030324.2799	NE,NH	Smi1952	1
0.3833	18.79	0.06	\mathbf{R}	030324.2979	NE,NH	Smi1952	1
0.401	18.75	0.05	\mathbf{R}	030324.316	NE,NH	Vre419	
1.077	20.64	0.28	\mathbf{R}	030324.992	NE,NH	Vre419	
1.112	20.56	0.10	R	030325.027	NE,NH	Vre419	
1.179	20.51	0.04	R	030325.094	NE,NH	Vre419	
1.214	20.57	0.05	R	030325.129	NE,NH	Vre419	
1.335	20.83	0.15	R	030325.250	NE,NH	Vre419	
2.126	21.27	0.07	R	030326.041	NE,NH	Vre419	
2.352	21.5	0.09	R	030326.267	NE,NH	Vre419	
2.438	21.43	0.04	R	030326.353	NE,NH	Vre419	
3.126	22.01	0.16	\mathbf{R}	030327.041	NE,NH	Vre419	
3.261	22.15	0.17	R	030327.176	NE,NH	Vre419	
4.244	22.36	0.11	\mathbf{R}	030328.159	NE,NH	Vre419	
10.367	24.3	0.15	\mathbf{R}	030403.282	NE,NH	Vre419	
104.078	> 25.6		R	030705.993	NE,NH	Vre419	
0.4015	18.69	0.06	$R_{\rm c}$	030324.3161	NE,NH	Gil1949	
1.08609	20.38	0.00	$ m R_{C}$	030324.3101	NE,NH	Mas1960	2
1.08887	20.36 20.37	0.1	$R_{\rm C}$	030325.00009	NE,NH	Mas1960	2
1.00007	20.57	0.1	$R_{\rm C}$	030325.00625	NE,NH	Mas1960	$\frac{2}{2}$
1.09103	20.56	0.1	$R_{\rm C}$	030325.00023	NE,NH	Mas1960	$\frac{2}{2}$
1.09651	20.43	0.1	$R_{\rm C}$	030325.0033	NE,NH	Mas1960	2
1.09051 1.10554	20.43 20.53	0.1	$R_{\rm C}$	030325.02014	*	Mas1960	2
1.10832	20.55	0.1	$R_{\rm C}$	030325.02292	NE,NH	Mas1960	$\frac{2}{2}$
1.11109	20.48	0.1	$R_{\rm C}$	030325.02569	NE,NH	Mas1960	2
1.11318	20.57	0.1	$R_{\rm C}$	030325.02778	NE,NH	Mas1960	2
1.11596	20.49	0.1	$R_{\rm C}$	030325.03056	NE,NH	Mas1960	2
1.11873	20.41	0.1	$R_{\rm C}$	030325.03333	NE,NH	Mas1960	2
1.12776	20.62	0.1	$R_{\rm C}$	030325.04236	NE,NH	Mas1960	2
1.12984	20.61	0.1	$R_{\rm C}$	030325.04444	NE,NH	Mas1960	$\frac{1}{2}$
			~		,		

Table 44—Continued

dt	mag	error	band	date	corrections	reference	remark
1.13262	20.49	0.1	$R_{\rm c}$	030325.04722	NE,NH	Mas1960	2
1.1354	20.62	0.1	$R_{\rm C}$	030325.05000	NE,NH	Mas1960	2
1.14026	20.57	0.1	$R_{\rm C}$	030325.05486	NE,NH	Mas1960	2
1.20623	20.47	0.1	$R_{\rm C}$	030325.12083	NE,NH	Mas1960	2
1.2104	20.54	0.1	$R_{\rm C}$	030325.12500	NE,NH	Mas1960	2
1.21387	20.44	0.1	$R_{\rm C}$	030325.12847	NE,NH	Mas1960	2
1.21804	20.51	0.1	$R_{\rm C}$	030325.13264	NE,NH	Mas1960	2
1.22221	20.59	0.1	$R_{\scriptscriptstyle \rm C}$	030325.13681	NE,NH	Mas1960	2
0.2754	> 16.59		CR	030324.19	NE,NH	Woo1968	
0.3154	> 16.26		CR	030324.23	NE,NH	Woo1968	
0.3554	18.83	0.09	CR	030324.27	NE,NH	Woo1968	
0.5219	19.56	0.1	CR	030324.4365	NE,NH	Gil1949	
0.5941	19.72	0.2	CR	030324.5087	NE,NH	Gil1949	
0.6544	19.96	0.3	CR	030324.5690	NE,NH	Gil1949	
0.6993	20.42	0.4	CR	030324.6139	NE,NH	Gil1949	

Gil1949 = Gilmore, A. et al. 2003, GCN 1949

Mas1960 = Masi, G. et al. 2003, GCN 1960

Smi1952 = Smith, D. A. et al. 2003, GCN 1952

Vre419 = Vreeswijk, P. M. et al. 2004, A&A, 419, 927

Woo1968 = Wood-Vasey, W. M. et al. 2003, GCN 1968

Note. —

1 = converted from ROTSE-III unfiltered images, actual data from http://www.rotse.net/transients/grb030323/ According to website, this is V magnitude, but data is much too bright for V - furthermore, the light curve on the website fits to

given magnitude, but is supposed to be R (and compares data to other R, $R_{\rm C}$ and CR data from GCN archives) - thus, we assume that these values are actually R.

2 = merged in Vre080 as one R magnitude point

Table 45. **GRB 030324**

dt	mag	error	band	date	corrections	reference	remark
0.0899 0.2421 0.2795 2.364	>20.2 >21.6 >16.7 >21.9		$egin{array}{c} I_{ m C} & & & & & & & & & & & & & & & & & & $	030324.2237 030324.3759 030324.4133 030326.4978	NE,NH NE,NH NE,NH NE,NH	Mor2037 Mor2037 Mor2037 Mor2037	
0.2568 11.9 39.7	23.48 >23.9 >25.3	0.21	i^* i^* i^*	030324.3907 030405 030503	NE,NH NE,NH NE,NH	Lam2239 Lam2139 Lam2239	

 $\operatorname{Lam}2139 = \operatorname{Lamb},$ D. Q. et al. 2003, GCN 2139

 $\operatorname{Lam} 2239 = \operatorname{Lamb},$ D. Q. et al. 2003, GCN 2239

Mor2037 = Moran, J. et al. 2003, GCN 2037

Table 46. **GRB 030328**

dt	mag	error	band	date	corrections	reference	remark
0.053	18.4		R	030328.526	NE,NH	Pet1974	1,2
0.067	18.6		R	030328.54	NE,NH	Pri1977	2
0.157	19.6		R	030328.63	NE,NH	Pri1977	2
0.267	> 17.7		R	030328.74	NE,NH	Lip2103	
0.399	> 18.3		R	030328.872	NE,NH	Lip2103	
0.400	20.9	0.2	R	030328.873	NE,NH	Rum1991	
0.441	20.5		R	030328.914	NE,NH	Gal1984	
0.476	20.45		R	030328.949	NE,NH	Bar2008	
0.479	20.55		R	030328.952	NE,NH	Bur1990	2
0.5342	20.59	0.07	R	030329.0071	NE,NH	Fug1982	
0.6345	20.79	0.08	R	030329.1074	NE,NH	Fug1982	
0.651	20.91	0.09	R	030329.124	NE,NH	And 1993	
0.66	20.73	0.07	R	030329.133	NE,NH	And 1993	
0.676	21.00	0.09	R	030329.149	NE,NH	And 1993	
0.69	20.85	0.06	R	030329.163	NE,NH	And 1993	
0.704	21.00	0.07	R	030329.177	NE,NH	And 1993	
0.708	21.0		R	030329.181	NE,NH	Mar1979	2
0.723	20.95	0.07	R	030329.196	NE,NH	And 1993	
0.75	21.10	0.07	R	030329.223	NE,NH	And 1993	
0.772	21.03	0.07	R	030329.245	NE,NH	And 1993	
0.831	21.23	0.10	R	030329.303	NE,NH	And 1993	
0.851	21.36	0.11	R	030329.324	NE,NH	And 1993	
1.310	22.10	0.28	R	030329.783	NE,NH	Ibr2192	
1.57	22.14	0.06	R	030330.04	NE,NH	Gar 2036	2
362.0802	24.21	0.35	$R_{\rm C}$	040324.5531	CE,NH	Gor059	3

And1993 = Andersen, M. I. et al. 2003, GCN 1993

 $\mathrm{Bar}2008=\mathrm{Bartolini},$ C. et al. 2003, GCN 2008

Bur1990 = Burenin, R. et al. 2003, GCN 1990

 $Fug1982 = Fugazza, \, D. \, et \, al. \, 2003, \, GCN \, 1982$

Gal1984 = Gal-Yam, A. et al. 2003, GCN 1984

Gar2036 = Garnavich, P. et al. 2003, GCN 2036

Gor059 = Gorosabel, J. et al. 2005, astro-ph/0504059

Ibr2192 = Ibrahimov, M. A. et al. 2003, GCN 2192

Lip2103 = Lipunov, V. et al. 2003, GCN 2103

Mar1979 = Martini, P. et al. 2003, GCN 1979

Pet1974 = Peterson, B. A. et al. 2003, GCN 1974

Pri1977 = Price, P. A. et al. 2003, GCN 1977

Rum1991 = Rumyantsev, V. et al. 2003, GCN 1991

Note. —

- 1 = result specified from decline equation in Pri1977
- 2 = magnitudes recalibrated with TNG result for star "B" (Fug1982)
- 3 = Converted from Calar Alto 2.2m BUSCA non-standard filter AB magnitude (see Gor059)

Table 47. **GRB 030329**

	m.c.~	ONEGE	hand	data	aonnaction -	noforeses	nom onl-
$\frac{dt}{dt}$	mag	error	band	date	corrections	reference	remark
0.06490	12.649	0.015	R	030329.5491	NE,NH	Pri423	
0.07260	12.786	0.017	R	030329.5568	NE,NH	Pri423	
0.11569	13.324	0.01	R	030329.59989	NE,NH	Ura2106	
0.15746	13.719	0.01	R	030329.64166	NE,NH	Ura2106	
0.1977	13.754	0.01	R	030329.6819	NE,NH	Ura2106	
0.21862	13.744	0.417	R	030329.70282	NE,NH	Lip2091	
0.22045	13.934	0.409	R	030329.70465	NE,NH	Lip2091	
0.22583	13.702	0.226	R	030329.71003	NE,NH	Lip2091	
0.22958	14.012	0.211	R	030329.71378	NE,NH	Lip2091	
0.23268	13.708	0.164	R	030329.71688	NE,NH	Lip2091	
0.23436	13.854	0.151	R	030329.71856	NE,NH	Lip2091	
0.23771	13.983	0.097	R	030329.72191	NE,NH	Lip2091	
0.23964	13.744	0.01	R	030329.72384	NE,NH	Ura2106	
0.24804	14.118	0.172	R	030329.73224	NE,NH	Lip2091	
0.24952	13.908	0.103	R	030329.73372	NE,NH	Lip2091	
0.25209	13.972	0.101	R	030329.73629	NE,NH	Lip2091	
0.25349	13.644	0.01	R	030329.73769	NE,NH	Ura2106	
0.25398	14.043	0.079	R	030329.73818	NE,NH	Lip2091	
0.25653	14.004	0.081	R	030329.74073	NE,NH	Lip2091	
0.25844	14.007	0.078	R	030329.74264	NE,NH	Lip2091	
0.26062	13.971	0.083	R	030329.74482	NE,NH	Lip2091	
0.26275	13.943	0.073	R	030329.74695	NE,NH	Lip2091	
0.26584	14.092	0.085	R	030329.75004	NE,NH	Lip2091	
0.2684	14.03	0.03	R	030329.7526	NE,NH	Pav2067	
0.27426	14.007	0.125	R	030329.75846	NE,NH	Lip2091	
0.28067	14.126	0.111	R	030329.76487	NE,NH	Lip2091	
0.29427	14.18	0.083	R	030329.77847	NE,NH	Lip2091	
0.29617	14.145	0.085	R	030329.78037	NE,NH	Lip2091	
0.29798	14.09	0.083	R	030329.78218	NE,NH	Lip2091	
0.2981	14.29	0.1	R	030329.7823	NE,NH	Bar2030	
0.29984	14.169	0.085	R	030329.78404	NE,NH	Lip2091	
0.30165	14.147	0.087	R	030329.78585	NE,NH	Lip2091	
0.30354	14.128	0.085	R	030329.78774	NE,NH	Lip2091	

Table 47—Continued

$\frac{}{dt}$	mag	error	band	date	corrections	reference	remark
0.30542	14.254	0.088	R	030329.78962	NE,NH	Lip2091	
0.30728	14.175	0.084	R	030329.79148	NE,NH	Lip2091	
0.309	14.02	0.017	R	030329.7932	NE,NH	Rum2005	
0.3091	14.231	0.089	R	030329.7933	NE,NH	Lip2091	
0.31097	14.141	0.08	R	030329.79517	NE,NH	Lip2091	
0.31283	14.325	0.098	R	030329.79703	NE,NH	Lip2091	
0.3166	14.216	0.101	R	030329.8008	NE,NH	Lip2091	
0.31842	14.261	0.098	R	030329.80262	NE,NH	Lip2091	
0.32025	14.07	0.088	R	030329.80445	NE,NH	Lip2091	
0.32253	14.168	0.121	R	030329.80673	NE,NH	Lip2091	
0.3441	14.395	0.108	R	030329.8283	NE,NH	Lip2091	
0.34597	14.375	0.105	R	030329.83017	NE,NH	Lip2091	
0.34797	14.45	0.101	R	030329.83217	NE,NH	Lip2091	
0.34988	14.431	0.11	R	030329.83408	NE,NH	Lip2091	
0.35187	14.336	0.094	R	030329.83607	NE,NH	Lip2091	
0.35521	14.499	0.097	R	030329.83941	NE,NH	Lip2091	
0.35712	14.318	0.1	R	030329.84132	NE,NH	Lip2091	
0.35908	14.463	0.1	R	030329.84328	NE,NH	Lip2091	
0.36099	14.324	0.093	R	030329.84519	NE,NH	Lip2091	
0.36282	14.432	0.099	R	030329.84702	NE,NH	Lip2091	
0.3637	14.54	0.01	R	030329.8479	NE,NH	Kin2193	
0.3647	14.35	0.04	R	030329.8489	NE,NH	Pri5415	
0.3654	14.34	0.12	R	030329.8496	NE,NH	Pri5415	
0.36649	14.44	0.061	R	030329.85069	NE,NH	Lip2091	
0.3669	14.47	0.14	R	030329.8511	NE,NH	Pri5415	
0.3677	14.44	0.05	R	030329.8519	NE,NH	Pri5415	
0.3684	14.48	0.08	R	030329.8526	NE,NH	Pri5415	
0.3692	14.44	0.08	R	030329.8534	NE,NH	Pri5415	
0.3714	14.55	0.03	R	030329.8556	NE,NH	Bar2030	
0.3714	14.5	0.13	R	030329.8556	NE,NH	Pri5415	
0.3722	14.4	0.02	R	030329.8564	NE,NH	Pri5415	
0.3729	14.32	0.05	R	030329.8571	NE,NH	Pri5415	
0.3736	14.37	0.02	R	030329.8578	NE,NH	Pri5415	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.3744	14.36	0.05	R	030329.8586	NE,NH	Pri5415	
0.37471	14.541	0.075	R	030329.85891	NE,NH	Lip2091	
0.3774	14.5	0.04	R	030329.8616	NE,NH	Pri5415	
0.37801	14.515	0.075	R	030329.86221	NE,NH	Lip2091	
0.3781	14.44	0.03	R	030329.8623	NE,NH	Pri5415	
0.38123	14.437	0.074	R	030329.86543	NE,NH	Lip2091	
0.3819	14.56	0.04	R	030329.8661	NE,NH	Pri5415	
0.38492	14.514	0.08	R	030329.86912	NE,NH	Lip2091	
0.3887	14.644	0.092	R	030329.8729	NE,NH	Lip2091	
0.3894	14.57	0.01	R	030329.8736	NE,NH	Kin2193	
0.39201	14.578	0.092	R	030329.87621	NE,NH	Lip2091	
0.39609	14.458	0.087	R	030329.88029	NE,NH	Lip2091	
0.4032	14.557	0.079	R	030329.8874	NE,NH	Lip2091	
0.4072	14.67	0.06	R	030329.8914	NE,NH	Pri5415	
0.4087	14.69	0.05	R	030329.8929	NE,NH	Pri5415	
0.4101	14.66	0.06	R	030329.8943	NE,NH	Pri5415	
0.41062	14.604	0.079	R	030329.89482	NE,NH	Lip2091	
0.4116	14.59	0.09	R	030329.8958	NE,NH	Pri5415	
0.4174	14.55	0.06	R	030329.9016	NE,NH	Pri5415	
0.41814	14.74	0.078	R	030329.90234	NE,NH	Lip2091	
0.4188	14.7	0.11	R	030329.903	NE,NH	Pri5415	
0.4202	14.51	0.13	R	030329.9044	NE,NH	Pri5415	
0.4217	14.58	0.03	R	030329.9059	NE,NH	Pri5415	
0.4231	14.62	0.02	R	030329.9073	NE,NH	Pri5415	
0.4246	14.47	0.04	R	030329.9088	NE,NH	Pri5415	
0.42568		0.065	R	030329.90988	,	Lip2091	
0.4260	14.45	0.09	R	030329.9102	NE,NH	Pri5415	
0.4274	14.6	0.06	R	030329.9116	NE,NH	Pri5415	
0.4289	14.6	0.12	R	030329.9131	NE,NH	Pri5415	
0.4303	14.67	0.07	R	030329.9145	NE,NH	Pri5415	
0.4318	14.68	0.03	R	030329.916	NE,NH	Pri5415	
0.4332	14.64	0.02	R	030329.9174	NE,NH	Pri5415	
0.4346	14.74	0.02	R	030329.9188	NE,NH	Pri5415	

Table 47—Continued

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$\frac{dt}{dt}$	mag	error	band	date	corrections	reference	remark
0.43528	14.698	0.07	R	030329.91948	NE,NH	Lip2091	
0.4361	14.6	0.04	R	030329.9203	NE,NH	Pri5415	
0.4375	14.64	0.05	R	030329.9217	NE,NH	Pri5415	
0.4390	14.68	0.02	R	030329.9232	NE,NH	Pri5415	
0.4404	14.63	0.04	R	030329.9246	NE,NH	Pri5415	
0.4419	14.65	0.02	R	030329.9261	NE,NH	Pri5415	
0.4433	14.62	0.05	R	030329.9275	NE,NH	Pri5415	
0.4438	14.493	0.068	R	030329.928	NE,NH	Lip2091	
0.4447	14.64	0.02	R	030329.9289	NE,NH	Pri5415	
0.4462	14.7	0.05	R	030329.9304	NE,NH	Pri5415	
0.4476	14.68	0.02	R	030329.9318	NE,NH	Pri5415	
0.4505	14.74	0.03	R	030329.9347	NE,NH	Pri5415	
0.4512	14.719	0.08	R	030329.9354	NE,NH	Lip2091	
0.4540	14.68	0.018	R	030329.9382	NE,NH	Pri5415	
0.4616	14.632	0.089	R	030329.9458	NE,NH	Lip2091	
0.4623	14.71	0.011	R	030329.9465	NE,NH	Pri5415	
0.4721	14.75	0.011	R	030329.9563	NE,NH	Pri5415	
0.47702	14.854	0.113	R	030329.96122	NE,NH	Lip2091	
0.4818	14.77	0.011	R	030329.966	NE,NH	Pri5415	
0.49914	14.905	0.117	R	030329.98334	NE,NH	Lip2091	
0.5188	14.859	0.09	R	030330.003	NE,NH	Lip2091	
0.53223	14.837	0.129	R	030330.01643	NE,NH	Lip2091	
0.55213	15.064	0.162	R	030330.03633	NE,NH	Lip2091	
0.56616	15.002	0.161	R	030330.05036	NE,NH	Lip2091	
0.58255	15.594	0.413	R	030330.06675	NE,NH	Lip2091	
0.5979	15.12	0.018	R	030330.0821	NE,NH	Pri5415	
0.6174	15.18	0.018	R	030330.1016	NE,NH	Pri5415	
0.6208	15.21	0.107	R	030330.105	NE,NH	Pri5415	
0.6228	15.28	0.074	R	030330.107	NE,NH	Pri5415	
0.626	15.20767	0.107	R	030330.1102	NE,NH	Pri2058	
0.6268	15.21	0.049	R	030330.111	NE,NH	Pri5415	
0.628	15.28367	0.074	R	030330.1122	NE,NH	Pri2058	
0.6298	15.09	0.042	R	030330.114	NE,NH	Pri5415	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.631	15.21333	0.049	R	030330.1152	NE,NH	Pri2058	
0.6338	15.21	0.032	R	030330.118	NE,NH	Pri5415	
0.635	15.093	0.042	R	030330.1192	NE,NH	Pri2058	
0.6370	15.24	0.017	R	030330.1212	NE,NH	Pri5415	
0.639	15.206	0.032	R	030330.1232	NE,NH	Pri2058	
0.6428	15.2	0.04	R	030330.127	NE,NH	Pri5415	
0.64427	15.38	0.02	R	030330.12847	NE,NH	Zha2022	
0.6458	15.26	0.034	R	030330.13	NE,NH	Pri5415	
0.648	15.197	0.04	R	030330.1322	NE,NH	Pri2058	
0.6498	15.15	0.043	R	030330.134	NE,NH	Pri5415	
0.651	15.26367	0.034	R	030330.1352	NE,NH	Pri2058	
0.6518	15.23	0.033	R	030330.136	NE,NH	Pri5415	
0.654	15.152	0.043	R	030330.1382	NE,NH	Pri2058	
0.6548	15.27	0.044	R	030330.139	NE,NH	Pri5415	
0.6565	15.33	0.019	R	030330.1407	NE,NH	Pri5415	
0.657	15.22667	0.033	R	030330.1412	NE,NH	Pri2058	
0.6578	15.28	0.031	R	030330.142	NE,NH	Pri5415	
0.66	15.26833	0.044	R	030330.1442	NE,NH	Pri2058	
0.6618	15.26	0.028	R	030330.146	NE,NH	Pri5415	
0.662	15.275	0.031	R	030330.1462	NE,NH	Pri2058	
0.6658	15.44	0.038	R	030330.15	NE,NH	Pri5415	
0.667	15.259	0.028	R	030330.1512	NE,NH	Pri2058	
0.6698	15.39	0.038	R	030330.154	NE,NH	Pri5415	
0.671	15.44333	0.038	R	030330.1552	NE,NH	Pri2058	
0.6738	15.31	0.034	R	030330.158	NE,NH	Pri5415	
0.675	15.38767	0.038	R	030330.1592	NE,NH	Pri2058	
0.6760	15.39	0.02	R	030330.1602	NE,NH	Pri5415	
0.6778	15.28	0.033	R	030330.162	NE,NH	Pri5415	
0.679	15.308	0.034	R	030330.1632	NE,NH	Pri2058	
0.6818	15.34	0.037	R	030330.166	NE,NH	Pri5415	
0.683	15.28233	0.033	R	030330.1672	NE,NH	Pri2058	
0.687	15.33833	0.037	R	030330.1712	NE,NH	Pri2058	
0.6956	15.42	0.019	R	030330.1798	NE,NH	Pri5415	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.7151	15.5	0.019	R	030330.1993	NE,NH	Pri5415	
0.7168	15.49	0.039	R	030330.201	NE,NH	Pri5415	
0.722	15.48967	0.039	R	030330.2062	NE,NH	Pri2058	
0.7248	15.48	0.04	R	030330.209	NE,NH	Pri5415	
0.72969	15.61	0.02	R	030330.21389	NE,NH	Zha2022	
0.73	15.47933	0.04	R	030330.2142	NE,NH	Pri2058	
0.7328	15.44	0.036	R	030330.217	NE,NH	Pri5415	
0.7346	15.53	0.02	R	030330.2188	NE,NH	Pri5415	
0.738	15.443	0.036	R	030330.2222	NE,NH	Pri2058	
0.7408	15.5	0.039	R	030330.225	NE,NH	Pri5415	
0.746	15.497	0.039	R	030330.2302	NE,NH	Pri2058	
0.7488	15.58	0.041	R	030330.233	NE,NH	Pri5415	
0.754	15.57767	0.041	R	030330.2382	NE,NH	Pri2058	
0.7568	15.65	0.053	R	030330.241	NE,NH	Pri5415	
0.7607	15.62	0.022	R	030330.2449	NE,NH	Pri5415	
0.762	15.64933	0.053	R	030330.2462	NE,NH	Pri2058	
0.7668	15.6	0.039	R	030330.251	NE,NH	Pri5415	
0.772	15.596	0.039	R	030330.2562	NE,NH	Pri2058	
0.7748	15.66	0.043	R	030330.259	NE,NH	Pri5415	
0.78	15.657	0.043	R	030330.2642	NE,NH	Pri2058	
0.7802	15.63	0.022	R	030330.2644	NE,NH	Pri5415	
0.7838	15.53	0.034	R	030330.268	NE,NH	Pri5415	
0.7878	15.52	0.04	R	030330.272	NE,NH	Pri5415	
0.789	15.53167	0.034	R	030330.2732	NE,NH	Pri2058	
0.793	15.52233	0.04	R	030330.2772	NE,NH	Pri2058	
0.7997	15.74	0.025	R	030330.2839	NE,NH	Pri5415	
0.8048	15.64	0.068	R	030330.289	NE,NH	Pri5415	
0.81	15.64033	0.068	R	030330.2942	NE,NH	Pri2058	
0.8128	15.72	0.05	R	030330.297	NE,NH	Pri5415	
0.8188	15.68	0.081	R	030330.303	NE,NH	Pri5415	
0.8228	15.76	0.057	R	030330.307	NE,NH	Pri5415	
0.824	15.67667	0.081	R	030330.3082	NE,NH	Pri2058	
0.828	15.764	0.057	R	030330.3122	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.8548	15.81	0.097	R	030330.339	NE,NH	Pri5415	
0.85608	15.84	0.02	R	030330.34028	NE,NH	Zha2022	
0.8568	15.86	0.079	R	030330.341	NE,NH	Pri5415	
0.8598	15.87	0.072	R	030330.344	NE,NH	Pri5415	
0.86	15.80933	0.097	R	030330.3442	NE,NH	Pri2058	
0.862	15.863	0.079	R	030330.3462	NE,NH	Pri2058	
0.8628	15.82	0.053	R	030330.347	NE,NH	Pri5415	
0.865	15.86933	0.072	R	030330.3492	NE,NH	Pri2058	
0.8668	15.87	0.057	R	030330.351	NE,NH	Pri5415	
0.868	15.824	0.053	R	030330.3522	NE,NH	Pri2058	
0.872	15.871	0.057	R	030330.3562	NE,NH	Pri2058	
0.8788	15.96	0.093	R	030330.363	NE,NH	Pri5415	
0.8838	15.78	0.053	R	030330.368	NE,NH	Pri5415	
0.884	15.961	0.093	R	030330.3682	NE,NH	Pri2058	
0.8878	15.9	0.059	R	030330.372	NE,NH	Pri5415	
0.889	15.78267	0.053	R	030330.3732	NE,NH	Pri2058	
0.893	15.90467	0.059	R	030330.3772	NE,NH	Pri2058	
0.9038	15.84	0.056	R	030330.388	NE,NH	Pri5415	
0.909	15.84833	0.056	R	030330.3932	NE,NH	Pri2058	
0.9108	15.78	0.04	R	030330.395	NE,NH	Pri2058	
0.9108	15.76	0.04	R	030330.395	NE,NH	Pri5415	
0.9188	15.93	0.074	R	030330.403	NE,NH	Pri5415	
0.924	15.928	0.074	R	030330.4082	NE,NH	Pri2058	
0.93247	16.05	0.02	R	030330.41667	NE,NH	Zha2022	
0.9348	15.81	0.068	R	030330.419	NE,NH	Pri5415	
0.94	15.81433	0.068	R	030330.4242	NE,NH	Pri2058	
0.9518	15.99	0.082	R	030330.436	NE,NH	Pri5415	
0.957	15.989	0.082	R	030330.4412	NE,NH	Pri2058	
1.02020	16.181	0.010	R	030330.5044	NE,NH	Pri423	
1.02580	16.227	0.009	R	030330.5100	NE,NH	Pri423	
1.24856	16.47	0.1	R	030330.73276	NE,NH	Pri2058	
1.25463	16.47	0.1	R	030330.73883	NE,NH	Pri2058	
1.25765	16.51	0.1	R	030330.74185	NE,NH	Pri2058	

Table 47—Continued

1.2633 16.61 0.02 R 030330.7475 NE,NH Rum2028 1.27809 16.44 0.1 R 030330.76229 NE,NH Pri2058 1.2847 16.44 0.04 R 030330.7689 NE,NH Pri2058 1.29271 16.4 0.1 R 030330.7689 NE,NH Pri2058 1.30268 16.41 0.1 R 030330.7688 NE,NH Pri2058 1.31727 16.39 0.1 R 030330.8147 NE,NH Pri2058 1.3186 16.35 0.05 R 030330.8125 NE,NH Kin2193 1.3283 16.35 0.04 R 030330.8125 NE,NH Kin2193 1.33184 16.4 0.1 R 030330.81604 NE,NH Pri2058 1.3561 16.56 0.01 R 030330.81604 NE,NH Pri5415 1.3707 16.46 0.03 R 030330.8549 NE,NH Pri5415 1.3853 16.4 0.05 R 030330.895 NE,NH Pri5415 1.3999 16.51 0.04 R 030330.895 NE,NH Pri5415 1.4145 16.44 0.05 R 030330.8987 NE,NH Pri5415 1.4491 16.42 0.03 R 030330.893 NE,NH Pri5415 1.4454 16.5 0.2 R 030330.996 NE,NH Pri5415 1.4459 16.4 0.06 R 030330.996 NE,NH Bur2046 1.4459 16.4 0.06 R 030330.996 NE,NH Pri5415 1.6003 16.24 0.04 R 030330.996 NE,NH Pri5415 1.6003 16.24 0.04 R 030330.997 NE,NH Pri5415 1.6005 16.35 0.1 R 030331.0917 NE,NH Pri5415 1.6005 16.35 0.1 R 030331.0917 NE,NH Pri5415 1.6125 16.24 0.2 R 030331.0917 NE,NH Pri5415 1.6125 16.35 0.1 R 030331.0917 NE,NH Pri5415 1.6125 16.36 0.2 R 030331.0917 NE,NH Pri5415 1.6126 16.31 0.15 R 030331.091 NE,NH Pri5415 1.6264 16.41 0.15 R 030331.109 NE,NH Pri5415 1.6362 16.66 0.2 R 030331.109 NE,NH Pri5415 1.6362 16.66 0.15 R 030331.1160 NE,NH Pri5415 1.63627 16.65 0.07 R 030331.1160 NE,NH Pri5415 1.636287 16.65 0.07 R 030331.1175 NE,NH Pri5415 1.6376 16.51 0.02 R 030331.1187 NE,NH Pri5415 1.6376 16.51 0.02 R 030331.1187 NE,NH Pri5415	$\frac{}{dt}$	mag	error	band	date	corrections	reference	remark
1.27809 16.44 0.1 R 030330.76229 NE,NH Pri2058 1.2847 16.44 0.04 R 030330.7689 NE,NH Pav2067 1.29271 16.4 0.1 R 030330.77691 NE,NH Pri2058 1.30268 16.41 0.1 R 030330.80147 NE,NH Pri2058 1.31727 16.39 0.1 R 030330.80147 NE,NH Pri2058 1.3186 16.35 0.05 R 030330.8125 NE,NH Kin2193 1.3283 16.35 0.04 R 030330.81604 NE,NH Pri2058 1.3561 16.56 0.01 R 030330.8403 NE,NH Pri5415 1.3707 16.46 0.03 R 030330.8841 NE,NH Pri5415 1.3399 16.51 0.04 R 030330.8987 NE,NH Pri5415 1.4491 16.42 0.03 R 030330.9301 NE,NH Pri5415								
1.2847 16.44 0.04 R 030330.7689 NE,NH Pav2067 1.29271 16.4 0.1 R 030330.77691 NE,NH Pri2058 1.30268 16.41 0.1 R 030330.78688 NE,NH Pri2058 1.31727 16.39 0.1 R 030330.80147 NE,NH Pri2058 1.3186 16.35 0.05 R 030330.8028 NE,NH Kin2193 1.3283 16.35 0.04 R 030330.81604 NE,NH Pri2058 1.3561 16.56 0.01 R 030330.8403 NE,NH Pri5415 1.3707 16.46 0.03 R 030330.8493 NE,NH Pri5415 1.3853 16.4 0.05 R 030330.8895 NE,NH Pri5415 1.4491 16.42 0.03 R 030330.8987 NE,NH Pri5415 1.4459 16.4 0.06 R 030331.0725 NE,NH Pri5415 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>,</td><td></td><td></td></t<>						,		
1.29271 16.4 0.1 R 030330.77691 NE,NH Pri2058 1.30268 16.41 0.1 R 030330.78688 NE,NH Pri2058 1.31727 16.39 0.1 R 030330.8028 NE,NH Kin2193 1.3186 16.35 0.04 R 030330.8125 NE,NH Kin2193 1.33184 16.4 0.1 R 030330.81604 NE,NH Pri2058 1.3561 16.56 0.01 R 030330.8403 NE,NH Pri5415 1.3707 16.46 0.03 R 030330.8695 NE,NH Pri5415 1.3899 16.51 0.04 R 030330.8987 NE,NH Pri5415 1.4445 16.42 0.03 R 030330.9926 NE,NH Pri5415 1.4459 16.4 0.06 R 030330.9301 NE,NH Pri5415 1.6062 16.26 0.2 R 030331.0725 NE,NH Pri5415								
1.30268 16.41 0.1 R 030330.78688 NE,NH Pri2058 1.31727 16.39 0.1 R 030330.80147 NE,NH Pri2058 1.3186 16.35 0.05 R 030330.8028 NE,NH Kin2193 1.3283 16.35 0.04 R 030330.81604 NE,NH Pri2058 1.33184 16.4 0.1 R 030330.81604 NE,NH Pri5415 1.3561 16.56 0.01 R 030330.8403 NE,NH Pri5415 1.38707 16.46 0.03 R 030330.8549 NE,NH Pri5415 1.3899 16.51 0.04 R 030330.8841 NE,NH Pri5415 1.4494 16.42 0.03 R 030330.987 NE,NH Pri5415 1.4459 16.4 0.06 R 030330.9301 NE,NH Pri2415 1.6023 16.24 0.04 R 030331.0975 NE,NH Pri2415 <								
1.31727 16.39 0.1 R 030330.80147 NE,NH Pri2058 1.3186 16.35 0.05 R 030330.8028 NE,NH Kin2193 1.3283 16.35 0.04 R 030330.8125 NE,NH Pri2058 1.33184 16.4 0.1 R 030330.81604 NE,NH Pri5415 1.3707 16.46 0.03 R 030330.8549 NE,NH Pri5415 1.3853 16.4 0.05 R 030330.8695 NE,NH Pri5415 1.3999 16.51 0.04 R 030330.8841 NE,NH Pri5415 1.4145 16.42 0.03 R 030330.9897 NE,NH Pri5415 1.4454 16.5 0.2 R 030330.9301 NE,NH Pri5415 1.4459 16.4 0.06 R 030331.0725 NE,NH Bur2046 1.6033 16.24 0.04 R 030331.097 NE,NH Pri5415 1.6						,		
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1.3283 16.35 0.04 R 030330.8125 NE,NH Kin2193 1.33184 16.4 0.1 R 030330.81604 NE,NH Pri2058 1.3561 16.56 0.01 R 030330.8403 NE,NH Pri5415 1.3707 16.46 0.03 R 030330.8549 NE,NH Pri5415 1.3853 16.4 0.05 R 030330.8695 NE,NH Pri5415 1.3999 16.51 0.04 R 030330.8987 NE,NH Pri5415 1.4145 16.42 0.03 R 030330.9133 NE,NH Pri5415 1.4291 16.42 0.03 R 030330.9296 NE,NH Bur2046 1.4459 16.4 0.06 R 030331.0725 NE,NH Pri5415 1.5883 16.39 0.2 R 030331.0875 NE,NH Pri5415 1.6062 16.26 0.2 R 030331.0904 NE,NH Pri2058 1.6								
1.33184 16.4 0.1 R 030330.81604 NE,NH Pri2058 1.3561 16.56 0.01 R 030330.8403 NE,NH Pri5415 1.3707 16.46 0.03 R 030330.8549 NE,NH Pri5415 1.3853 16.4 0.05 R 030330.8841 NE,NH Pri5415 1.4991 16.42 0.03 R 030330.8987 NE,NH Pri5415 1.4291 16.42 0.03 R 030330.9931 NE,NH Pri5415 1.4454 16.5 0.2 R 030330.996 NE,NH Pri5415 1.4459 16.4 0.06 R 030331.0725 NE,NH Pav2067 1.5883 16.39 0.2 R 030331.0875 NE,NH Pri5415 1.6062 16.26 0.2 R 030331.0904 NE,NH Pri2058 1.6075 16.35 0.1 R 030331.0917 NE,NH Pri2058 1.6125<								
1.3561 16.56 0.01 R 030330.8403 NE,NH Pri5415 1.3707 16.46 0.03 R 030330.8549 NE,NH Pri5415 1.3853 16.4 0.05 R 030330.8695 NE,NH Pri5415 1.3999 16.51 0.04 R 030330.8987 NE,NH Pri5415 1.4145 16.42 0.03 R 030330.9133 NE,NH Pri5415 1.4291 16.42 0.03 R 030330.9296 NE,NH Pri5415 1.4454 16.5 0.2 R 030330.9301 NE,NH Pri5415 1.4459 16.4 0.06 R 030331.0725 NE,NH Bur2046 1.5883 16.39 0.2 R 030331.0875 NE,NH Pri5415 1.6062 16.26 0.2 R 030331.0904 NE,NH Pri2058 1.6075 16.32 0.05 R 030331.0917 NE,NH Pri5415 1.612								
1.3707 16.46 0.03 R 030330.8549 NE,NH Pri5415 1.3853 16.4 0.05 R 030330.8695 NE,NH Pri5415 1.3999 16.51 0.04 R 030330.8841 NE,NH Pri5415 1.4145 16.44 0.05 R 030330.933 NE,NH Pri5415 1.4291 16.42 0.03 R 030330.9296 NE,NH Pri5415 1.4459 16.4 0.06 R 030330.9301 NE,NH Pav2067 1.5883 16.39 0.2 R 030331.0725 NE,NH Pri5415 1.6033 16.24 0.04 R 030331.0875 NE,NH Pri5415 1.6062 16.26 0.2 R 030331.0904 NE,NH Pri2058 1.6075 16.35 0.1 R 030331.0917 NE,NH Pri5415 1.6125 16.24 0.2 R 030331.0967 NE,NH Pri5415 1.6388						•		
1.3853 16.4 0.05 R 030330.8695 NE,NH Pri5415 1.3999 16.51 0.04 R 030330.8841 NE,NH Pri5415 1.4145 16.44 0.05 R 030330.9887 NE,NH Pri5415 1.4291 16.42 0.03 R 030330.9296 NE,NH Pri5415 1.4454 16.5 0.2 R 030330.9296 NE,NH Bur2046 1.4459 16.4 0.06 R 030331.0725 NE,NH Pav2067 1.5883 16.39 0.2 R 030331.0725 NE,NH Bur2046 1.6033 16.24 0.04 R 030331.0875 NE,NH Pri5415 1.6062 16.26 0.2 R 030331.0904 NE,NH Pri2058 1.6075 16.35 0.1 R 030331.0917 NE,NH Pri2058 1.6125 16.24 0.2 R 030331.0967 NE,NH Pri5415 1.638 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
1.3999 16.51 0.04 R 030330.8841 NE,NH Pri5415 1.4145 16.44 0.05 R 030330.8987 NE,NH Pri5415 1.4291 16.42 0.03 R 030330.9133 NE,NH Pri5415 1.4454 16.5 0.2 R 030330.9296 NE,NH Bur2046 1.4459 16.4 0.06 R 030331.0725 NE,NH Pav2067 1.5883 16.39 0.2 R 030331.0725 NE,NH Bur2046 1.6033 16.24 0.04 R 030331.0875 NE,NH Pri5415 1.6062 16.26 0.2 R 030331.0904 NE,NH Pri2058 1.6075 16.35 0.1 R 030331.0917 NE,NH Pri5415 1.6125 16.32 0.05 R 030331.0967 NE,NH Pri2058 1.6189 16.29 0.15 R 030331.103 NE,NH Pri5415 1.6261 16.31 0.15 R 030331.1044 NE,NH Pri5415	1.3707	16.46					Pri5415	
1.4145 16.44 0.05 R 030330.8987 NE,NH Pri5415 1.4291 16.42 0.03 R 030330.9133 NE,NH Pri5415 1.4454 16.5 0.2 R 030330.9296 NE,NH Bur2046 1.4459 16.4 0.06 R 030331.0725 NE,NH Pav2067 1.5883 16.39 0.2 R 030331.0725 NE,NH Bur2046 1.6033 16.24 0.04 R 030331.0875 NE,NH Pri5415 1.6062 16.26 0.2 R 030331.0904 NE,NH Pri2058 1.6075 16.35 0.1 R 030331.0917 NE,NH Pri5415 1.6125 16.32 0.05 R 030331.0967 NE,NH Pri5415 1.6139 16.29 0.15 R 030331.103 NE,NH Pri5415 1.6202 16.31 0.15 R 030331.1044 NE,NH Pri5415 1.625 16.36 0.2 R 030331.11092 NE,NH Pri5415	1.3853		0.05		030330.8695	•		
1.4291 16.42 0.03 R 030330.9133 NE,NH Pri5415 1.4454 16.5 0.2 R 030330.9296 NE,NH Bur2046 1.4459 16.4 0.06 R 030331.9301 NE,NH Pav2067 1.5883 16.39 0.2 R 030331.0725 NE,NH Bur2046 1.6033 16.24 0.04 R 030331.0875 NE,NH Pri5415 1.6062 16.26 0.2 R 030331.0904 NE,NH Pri2058 1.6075 16.35 0.1 R 030331.0917 NE,NH Pri5415 1.6125 16.24 0.2 R 030331.0967 NE,NH Pri2058 1.6139 16.29 0.15 R 030331.10981 NE,NH Pri5415 1.6188 16.17 0.2 R 030331.1044 NE,NH Pri5415 1.625 16.36 0.2 R 030331.1092 NE,NH Pri5415 1.6313 16.21 0.2 R 030331.1166 NE,NH Pri5415	1.3999	16.51	0.04	R	030330.8841		Pri5415	
1.4454 16.5 0.2 R 030330.9296 NE,NH Bur2046 1.4459 16.4 0.06 R 030330.9301 NE,NH Pav2067 1.5883 16.39 0.2 R 030331.0725 NE,NH Bur2046 1.6033 16.24 0.04 R 030331.0875 NE,NH Pri5415 1.6062 16.26 0.2 R 030331.0904 NE,NH Pri2058 1.6075 16.35 0.1 R 030331.0917 NE,NH Pri5415 1.6125 16.32 0.05 R 030331.0967 NE,NH Pri52058 1.6139 16.29 0.15 R 030331.0981 NE,NH Pri5415 1.6188 16.17 0.2 R 030331.103 NE,NH Pri5415 1.625 16.36 0.2 R 030331.1044 NE,NH Pri5415 1.625 16.36 0.2 R 030331.1106 NE,NH Pri5415 1.6313 16.21 0.2 R 030331.1169 NE,NH Pri5415 <t< td=""><td>1.4145</td><td>16.44</td><td>0.05</td><td>R</td><td>030330.8987</td><td>NE,NH</td><td>Pri5415</td><td></td></t<>	1.4145	16.44	0.05	R	030330.8987	NE,NH	Pri5415	
1.4459 16.4 0.06 R 030330.9301 NE,NH Pav2067 1.5883 16.39 0.2 R 030331.0725 NE,NH Bur2046 1.6033 16.24 0.04 R 030331.0875 NE,NH Pri5415 1.6062 16.26 0.2 R 030331.0904 NE,NH Pri2058 1.6075 16.35 0.1 R 030331.0917 NE,NH Pri5415 1.6075 16.32 0.05 R 030331.0917 NE,NH Pri5415 1.6125 16.24 0.2 R 030331.0967 NE,NH Pri5415 1.6189 16.29 0.15 R 030331.0981 NE,NH Pri5415 1.6202 16.31 0.15 R 030331.103 NE,NH Pri5415 1.625 16.36 0.2 R 030331.1092 NE,NH Pri5415 1.6313 16.21 0.2 R 030331.1155 NE,NH Pri5415 1.6327 16.26 0.15 R 030331.1169 NE,NH Pri5415	1.4291	16.42	0.03	R	030330.9133	NE,NH	Pri5415	
1.5883 16.39 0.2 R 030331.0725 NE,NH Bur2046 1.6033 16.24 0.04 R 030331.0875 NE,NH Pri5415 1.6062 16.26 0.2 R 030331.0904 NE,NH Pri2058 1.6075 16.35 0.1 R 030331.0917 NE,NH Pri2058 1.6075 16.32 0.05 R 030331.0917 NE,NH Pri5415 1.6125 16.24 0.2 R 030331.0967 NE,NH Pri2058 1.6139 16.29 0.15 R 030331.0981 NE,NH Pri5415 1.6188 16.17 0.2 R 030331.103 NE,NH Pri2058 1.6202 16.31 0.15 R 030331.1044 NE,NH Pri5415 1.625 16.36 0.2 R 030331.11092 NE,NH Pri5415 1.6313 16.21 0.2 R 030331.1155 NE,NH Pri5415 1.63287 16.45 0.07 R 030331.11707 NE,NH Pri5415	1.4454	16.5	0.2	R	030330.9296	NE,NH	Bur2046	
1.6033 16.24 0.04 R 030331.0875 NE,NH Pri5415 1.6062 16.26 0.2 R 030331.0904 NE,NH Pri2058 1.6075 16.35 0.1 R 030331.0917 NE,NH Pri2058 1.6075 16.32 0.05 R 030331.0917 NE,NH Pri5415 1.6125 16.24 0.2 R 030331.0967 NE,NH Pri2058 1.6139 16.29 0.15 R 030331.0981 NE,NH Pri5415 1.6188 16.17 0.2 R 030331.103 NE,NH Pri2058 1.6202 16.31 0.15 R 030331.1044 NE,NH Pri5415 1.625 16.36 0.2 R 030331.11092 NE,NH Pri5415 1.6313 16.21 0.2 R 030331.1155 NE,NH Pri5415 1.63287 16.45 0.07 R 030331.11707 NE,NH Pri5415 1.6345 16.69 0.02 R 030331.1187 NE,NH Pri5415	1.4459	16.4	0.06	R	030330.9301	NE,NH	Pav2067	
1.6062 16.26 0.2 R 030331.0904 NE,NH Pri2058 1.6075 16.35 0.1 R 030331.0917 NE,NH Pri2058 1.6075 16.32 0.05 R 030331.0917 NE,NH Pri5415 1.6125 16.24 0.2 R 030331.0967 NE,NH Pri2058 1.6139 16.29 0.15 R 030331.0981 NE,NH Pri5415 1.6188 16.17 0.2 R 030331.103 NE,NH Pri2058 1.6202 16.31 0.15 R 030331.1044 NE,NH Pri5415 1.625 16.36 0.2 R 030331.11092 NE,NH Pri5415 1.6313 16.21 0.2 R 030331.1155 NE,NH Pri5415 1.6327 16.26 0.15 R 030331.1169 NE,NH Pri2058 1.63287 16.45 0.07 R 030331.1187 NE,NH Pri2058 1.6345 16.69 0.02 R 030331.1187 NE,NH Pri2058	1.5883	16.39	0.2	R	030331.0725	NE,NH	Bur2046	
1.6075 16.35 0.1 R 030331.0917 NE,NH Pri2058 1.6075 16.32 0.05 R 030331.0917 NE,NH Pri5415 1.6125 16.24 0.2 R 030331.0967 NE,NH Pri2058 1.6139 16.29 0.15 R 030331.0981 NE,NH Pri5415 1.6188 16.17 0.2 R 030331.103 NE,NH Pri2058 1.6202 16.31 0.15 R 030331.1044 NE,NH Pri5415 1.625 16.36 0.2 R 030331.1092 NE,NH Pri2058 1.6313 16.21 0.15 R 030331.1155 NE,NH Pri2058 1.6327 16.26 0.15 R 030331.1169 NE,NH Pri5415 1.63287 16.45 0.07 R 030331.11707 NE,NH Pri5415 1.6345 16.69 0.02 R 030331.1187 NE,NH Pri5415	1.6033	16.24	0.04	R	030331.0875	NE,NH	Pri5415	
1.6075 16.32 0.05 R 030331.0917 NE,NH Pri5415 1.6125 16.24 0.2 R 030331.0967 NE,NH Pri2058 1.6139 16.29 0.15 R 030331.0981 NE,NH Pri5415 1.6188 16.17 0.2 R 030331.103 NE,NH Pri2058 1.6202 16.31 0.15 R 030331.1044 NE,NH Pri5415 1.625 16.36 0.2 R 030331.1092 NE,NH Pri2058 1.6264 16.41 0.15 R 030331.1166 NE,NH Pri5415 1.6313 16.21 0.2 R 030331.1155 NE,NH Pri2058 1.6327 16.26 0.15 R 030331.11707 NE,NH Pri5415 1.6345 16.69 0.02 R 030331.1187 NE,NH Pri5415	1.6062	16.26	0.2	R	030331.0904	NE,NH	Pri2058	
1.6125 16.24 0.2 R 030331.0967 NE,NH Pri2058 1.6139 16.29 0.15 R 030331.0981 NE,NH Pri5415 1.6188 16.17 0.2 R 030331.103 NE,NH Pri2058 1.6202 16.31 0.15 R 030331.1044 NE,NH Pri5415 1.625 16.36 0.2 R 030331.1092 NE,NH Pri2058 1.6264 16.41 0.15 R 030331.1106 NE,NH Pri5415 1.6313 16.21 0.2 R 030331.1155 NE,NH Pri2058 1.6327 16.26 0.15 R 030331.11707 NE,NH Pri5415 1.6345 16.69 0.02 R 030331.1187 NE,NH Pri5415	1.6075	16.35	0.1	R	030331.0917	NE,NH	Pri2058	
1.6139 16.29 0.15 R 030331.0981 NE,NH Pri5415 1.6188 16.17 0.2 R 030331.103 NE,NH Pri2058 1.6202 16.31 0.15 R 030331.1044 NE,NH Pri5415 1.625 16.36 0.2 R 030331.1092 NE,NH Pri2058 1.6264 16.41 0.15 R 030331.1106 NE,NH Pri5415 1.6313 16.21 0.2 R 030331.1155 NE,NH Pri5415 1.6327 16.26 0.15 R 030331.1169 NE,NH Pri5415 1.63287 16.45 0.07 R 030331.1187 NE,NH Pri5415 1.6345 16.69 0.02 R 030331.1187 NE,NH Pri5415	1.6075	16.32	0.05	R	030331.0917	NE,NH	Pri5415	
1.6188 16.17 0.2 R 030331.103 NE,NH Pri2058 1.6202 16.31 0.15 R 030331.1044 NE,NH Pri5415 1.625 16.36 0.2 R 030331.1092 NE,NH Pri2058 1.6264 16.41 0.15 R 030331.1106 NE,NH Pri5415 1.6313 16.21 0.2 R 030331.1155 NE,NH Pri5415 1.6327 16.26 0.15 R 030331.1169 NE,NH Pri5415 1.63287 16.45 0.07 R 030331.11707 NE,NH Pri5415 1.6345 16.69 0.02 R 030331.1187 NE,NH Pri5415	1.6125	16.24	0.2	R	030331.0967	NE,NH	Pri2058	
1.6202 16.31 0.15 R 030331.1044 NE,NH Pri5415 1.625 16.36 0.2 R 030331.1092 NE,NH Pri2058 1.6264 16.41 0.15 R 030331.1106 NE,NH Pri5415 1.6313 16.21 0.2 R 030331.1155 NE,NH Pri2058 1.6327 16.26 0.15 R 030331.1169 NE,NH Pri5415 1.63287 16.45 0.07 R 030331.11707 NE,NH Pri5415 1.6345 16.69 0.02 R 030331.1187 NE,NH Pri5415	1.6139	16.29	0.15	R	030331.0981	NE,NH	Pri5415	
1.625 16.36 0.2 R 030331.1092 NE,NH Pri2058 1.6264 16.41 0.15 R 030331.1106 NE,NH Pri5415 1.6313 16.21 0.2 R 030331.1155 NE,NH Pri2058 1.6327 16.26 0.15 R 030331.1169 NE,NH Pri5415 1.63287 16.45 0.07 R 030331.11707 NE,NH Pri5415 1.6345 16.69 0.02 R 030331.1187 NE,NH Pri5415	1.6188	16.17	0.2	R	030331.103	NE,NH	Pri2058	
1.6264 16.41 0.15 R 030331.1106 NE,NH Pri5415 1.6313 16.21 0.2 R 030331.1155 NE,NH Pri2058 1.6327 16.26 0.15 R 030331.1169 NE,NH Pri5415 1.63287 16.45 0.07 R 030331.11707 NE,NH Pri2058 1.6345 16.69 0.02 R 030331.1187 NE,NH Pri5415	1.6202	16.31	0.15	R	030331.1044	NE,NH	Pri5415	
1.6313 16.21 0.2 R 030331.1155 NE,NH Pri2058 1.6327 16.26 0.15 R 030331.1169 NE,NH Pri5415 1.63287 16.45 0.07 R 030331.11707 NE,NH Pri2058 1.6345 16.69 0.02 R 030331.1187 NE,NH Pri5415	1.625	16.36	0.2	R	030331.1092	NE,NH	Pri2058	
1.6327 16.26 0.15 R 030331.1169 NE,NH Pri5415 1.63287 16.45 0.07 R 030331.11707 NE,NH Pri2058 1.6345 16.69 0.02 R 030331.1187 NE,NH Pri5415	1.6264	16.41	0.15	R	030331.1106	NE,NH	Pri5415	
1.63287 16.45 0.07 R 030331.11707 NE,NH Pri2058 1.6345 16.69 0.02 R 030331.1187 NE,NH Pri5415	1.6313	16.21	0.2	R	030331.1155	NE,NH	Pri2058	
1.63287 16.45 0.07 R 030331.11707 NE,NH Pri2058 1.6345 16.69 0.02 R 030331.1187 NE,NH Pri5415	1.6327	16.26	0.15	R	030331.1169	NE,NH	Pri5415	
$1.6345 16.69 0.02 R \qquad 030331.1187 NE, NH \qquad Pri5415$	1.63287	16.45			030331.11707	*		
, , , , , , , , , , , , , , , , , , ,	1.6345	16.69	0.02		030331.1187	,		
	1.6376	16.21	0.2	R	030331.1218	•	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
1.63786	16.32	0.06	R	030331.12206	NE,NH	Pri2058	
1.6390	16.36	0.15	R	030331.1232	NE,NH	Pri5415	
1.6395	16.71	0.02	R	030331.1237	NE,NH	Pri5415	
1.64287	16.21	0.05	R	030331.12707	NE,NH	Pri2058	
1.6438	16.34	0.2	R	030331.128	NE,NH	Pri2058	
1.6439	16.31	0.04	R	030331.1281	NE,NH	Pri5415	
1.6445	16.65	0.02	R	030331.1287	NE,NH	Pri5415	
1.6452	16.38	0.15	R	030331.1294	NE,NH	Pri5415	
1.64786	16.36	0.06	R	030331.13206	NE,NH	Pri2058	
1.6496	16.94	0.02	R	030331.1338	NE,NH	Pri5415	
1.6501	16.34	0.2	\mathbf{R}	030331.1343	NE,NH	Pri2058	
1.6515	16.39	0.15	\mathbf{R}	030331.1357	NE,NH	Pri5415	
1.65293	16.38	0.06	R	030331.13713	NE,NH	Pri2058	
1.6546	16.81	0.02	R	030331.1388	NE,NH	Pri5415	
1.6564	16.1	0.2	\mathbf{R}	030331.1406	NE,NH	Pri2058	
1.6567	16.29	0.04	R	030331.1409	NE,NH	Pri2058	
1.6578	16.24	0.15	R	030331.142	NE,NH	Pri5415	
1.65795	16.43	0.07	R	030331.14215	NE,NH	Pri2058	
1.6596	16.83	0.03	R	030331.1438	NE,NH	Pri5415	
1.6609	16.48	0.1	R	030331.1451	NE,NH	Pri2058	
1.6609	16.41	0.08	R	030331.1451	NE,NH	Pri5415	
1.6626	16.35	0.2	R	030331.1468	NE,NH	Pri2058	
1.66298	16.3	0.05	R	030331.14718	NE,NH	Pri2058	
1.6640	16.4	0.15	R	030331.1482	NE,NH	Pri5415	
1.6647	16.72	0.02	R	030331.1489	NE,NH	Pri5415	
1.6689	16.29	0.2	R	030331.1531	NE,NH	Pri2058	
1.67013	16.34	0.06	R	030331.15433	NE,NH	Pri2058	
1.6703	16.34	0.15	R	030331.1545	NE,NH	Pri5415	
1.6718	16.77	0.03	R	030331.156	NE,NH	Pri5415	
1.6752	16.19	0.2	R	030331.1594	NE,NH	Pri2058	
1.6766	16.36	0.15	R	030331.1608	NE,NH	Pri5415	
1.6768	16.82	0.03	R	030331.161	NE,NH	Pri5415	
1.67684	16.36	0.06	R	030331.16104	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
1.6814	16.24	0.2	R	030331.1656	NE,NH	Pri2058	
1.6818	16.84	0.04	R	030331.166	NE,NH	Pri5415	
1.6828	16.29	0.15	R	030331.167	NE,NH	Pri5415	
1.68352	16.34	0.06	R	030331.16772	NE,NH	Pri2058	
1.6877	16.49	0.2	R	030331.1719	NE,NH	Pri2058	
1.6891	16.53	0.15	\mathbf{R}	030331.1733	NE,NH	Pri5415	
1.7008	16.82	0.04	\mathbf{R}	030331.185	NE,NH	Pri2058	
1.704	16.28	0.1	R	030331.1882	NE,NH	Pri2058	
1.7040	16.31	0.07	R	030331.1882	NE,NH	Pri5415	
1.7063	16.09	0.2	R	030331.1905	NE,NH	Pri2058	
1.7077	16.44	0.15	R	030331.1919	NE,NH	Pri5415	
1.7126	16.56	0.2	R	030331.1968	NE,NH	Pri2058	
1.7140	16.61	0.15	R	030331.1982	NE,NH	Pri5415	
1.7172	16.58	0.13	R	030331.2014	NE,NH	Pri5415	
1.7189	16.37	0.2	R	030331.2031	NE,NH	Pri2058	
1.7203	16.41	0.15	\mathbf{R}	030331.2045	NE,NH	Pri5415	
1.7251	16.32	0.2	R	030331.2093	NE,NH	Pri2058	
1.7265	16.58	0.15	\mathbf{R}	030331.2107	NE,NH	Pri5415	
1.7314	16.46	0.2	R	030331.2156	NE,NH	Pri2058	
1.7328	16.5	0.15	R	030331.217	NE,NH	Pri5415	
1.7439	16.43	0.2	R	030331.2281	NE,NH	Pri2058	
1.7453	16.47	0.15	R	030331.2295	NE,NH	Pri5415	
1.7502	16.31	0.2	R	030331.2344	NE,NH	Pri2058	
1.7516	16.6	0.15	R	030331.2358	NE,NH	Pri5415	
1.7565	16.48	0.2	R	030331.2407	NE,NH	Pri2058	
1.7578	16.53	0.15	R	030331.242	NE,NH	Pri5415	
1.7627	16.56	0.2	R	030331.2469	NE,NH	Pri2058	
1.7641	16.6	0.15	R	030331.2483	NE,NH	Pri5415	
1.769	16.42	0.2	R	030331.2532	NE,NH	Pri2058	
1.7704	16.64	0.15	R	030331.2546	NE,NH	Pri5415	
1.7752	16.46	0.2	R	030331.2594	NE,NH	Pri2058	
1.7766	16.66	0.15	R	030331.2608	NE,NH	Pri5415	
1.7815	16.53	0.2	R	030331.2657	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
1.7829	16.68	0.15	R	030331.2671	NE,NH	Pri5415	
1.8221	16.46	0.03	R	030331.3063	NE,NH	Zha2075	
1.8415	16.48	0.03	R	030331.3257	NE,NH	Zha2276	
1.8943	16.51	0.03	R	030331.3785	NE,NH	Zha2075	
1.9741	16.6	0.03	R	030331.4583	NE,NH	Zha2075	
2.2593	16.92	0.04	\mathbf{R}	030331.7435	NE,NH	Pav2067	
2.25932	16.92	0.04	\mathbf{R}	030331.74352	NE,NH	Pav2050	
2.2625	16.91	0.1	\mathbf{R}	030331.7467	NE,NH	Bur2054	
2.2668	17.09	0.2	\mathbf{R}	030331.751	NE,NH	Lyu2113	
2.2734	17.04	0.2	\mathbf{R}	030331.7576	NE,NH	Lyu2113	
2.2762	16.84	0.2	\mathbf{R}	030331.7604	NE,NH	Lyu2113	
2.2971	16.84	0.2	\mathbf{R}	030331.7813	NE,NH	Lyu2113	
2.2998	16.94	0.2	\mathbf{R}	030331.784	NE,NH	Lyu2113	
2.3	16.92	0.1	\mathbf{R}	030331.7842	NE,NH	Bur2054	
2.3026	16.88	0.2	\mathbf{R}	030331.7868	NE,NH	Lyu2113	
2.3089	17.04	0.2	\mathbf{R}	030331.7931	NE,NH	Lyu2113	
2.3099	16.79	0.2	R	030331.7941	NE,NH	Pri2058	
2.3099	16.87	0.06	\mathbf{R}	030331.7941	NE,NH	Pri5415	
2.313	16.9	0.2	R	030331.7972	NE,NH	Lyu2113	
2.3139	16.73	0.05	\mathbf{R}	030331.7981	NE,NH	Pri5415	
2.3169	16.79	0.06	R	030331.8011	NE,NH	Pri5415	
2.3199	16.72	0.05	R	030331.8041	NE,NH	Pri5415	
2.3214	17.09	0.2	R	030331.8056	NE,NH	Lyu2113	
2.3229	16.83	0.05	R	030331.8071	NE,NH	Pri5415	
2.3241	16.98	0.2	R	030331.8083	NE,NH	Lyu2113	
2.3246	16.89	0.2	R	030331.8088	NE,NH	Pri2058	
2.3246	16.85	0.02	R	030331.8088	NE,NH	Pri5415	
2.3260	16.69	0.04	R	030331.8102	NE,NH	Pri5415	
2.3290	16.81	0.05	R	030331.8132	NE,NH	Pri5415	
2.3319	16.79	0.05	\mathbf{R}	030331.8161	NE,NH	Pri5415	
2.3325	17.12	0.2	\mathbf{R}	030331.8167	NE,NH	Lyu2113	
2.3349	16.81	0.05	R	030331.8191	NE,NH	Pri5415	
2.3383	16.83	0.05	R	030331.8225	NE,NH	Pri5415	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
2.3444	16.91	0.05	R	030331.8286	NE,NH	Pri5415	
2.3505	16.83	0.05	\mathbf{R}	030331.8347	NE,NH	Pri5415	
2.3527	16.85	0.2	\mathbf{R}	030331.8369	NE,NH	Pri2058	
2.3527	16.84	0.04	\mathbf{R}	030331.8369	NE,NH	Pri5415	
2.3624	16.99	0.05	\mathbf{R}	030331.8466	NE,NH	Pri5415	
2.3673	16.96	0.2	R	030331.8515	NE,NH	Pri2058	
2.3673	17.01	0.04	R	030331.8515	NE,NH	Pri5415	
2.3686	16.8	0.05	R	030331.8528	NE,NH	Pri5415	
2.3747	16.89	0.05	R	030331.8589	NE,NH	Pri5415	
2.3792	16.99	0.1	R	030331.8634	NE,NH	Bur2054	
2.3808	16.89	0.06	R	030331.865	NE,NH	Pri5415	
2.3819	16.9	0.2	R	030331.8661	NE,NH	Pri2058	
2.3819	16.92	0.03	R	030331.8661	NE,NH	Pri5415	
2.3869	16.83	0.05	R	030331.8711	NE,NH	Pri5415	
2.3931	16.85	0.05	R	030331.8773	NE,NH	Pri5415	
2.3965	16.83	0.2	R	030331.8807	NE,NH	Pri2058	
2.3965	16.76	0.08	R	030331.8807	NE,NH	Pri5415	
2.3975	16.88	0.05	R	030331.8817	NE,NH	Pri5415	
2.4026	16.9	0.08	R	030331.8868	NE,NH	Pav2067	
2.4033	16.8	0.04	R	030331.8875	NE,NH	Kin2193	
2.4036	16.82	0.05	R	030331.8878	NE,NH	Pri5415	
2.4098	16.83	0.05	R	030331.894	NE,NH	Pri5415	
2.4111	16.92	0.2	R	030331.8953	NE,NH	Pri2058	
2.4111	16.85	0.05	\mathbf{R}	030331.8953	NE,NH	Pri5415	
2.4159	16.9	0.05	\mathbf{R}	030331.9001	NE,NH	Pri5415	
2.4181	16.91	0.06	R	030331.9023	NE,NH	Pav2067	
2.4220	16.86	0.05	\mathbf{R}	030331.9062	NE,NH	Pri5415	
2.4257	17.16	0.2	R	030331.9099	NE,NH	Pri2058	
2.4257	17.13	0.08	\mathbf{R}	030331.9099	NE,NH	Pri5415	
2.4281	16.84	0.04	\mathbf{R}	030331.9123	NE,NH	Pri5415	
2.4343	16.85	0.05	\mathbf{R}	030331.9185	NE,NH	Pri5415	
2.4404	16.88	0.05	R	030331.9246	NE,NH	Pri5415	
2.4408	16.96	0.2	R	030331.925	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
2.4408	17.15	0.04	R	030331.925	NE,NH	Pri5415	
2.4465	16.84	0.05	R	030331.9307	NE,NH	Pri5415	
2.4527	16.88	0.05	R	030331.9369	NE,NH	Pri5415	
2.4558	16.89	0.2	R	030331.94	NE,NH	Pri2058	
2.4558	16.82	0.05	R	030331.94	NE,NH	Pri5415	
2.4588	16.86	0.05	R	030331.943	NE,NH	Pri5415	
2.4649	16.87	0.05	R	030331.9491	NE,NH	Pri5415	
2.4709	17.02	0.2	R	030331.9551	NE,NH	Pri2058	
2.4709	17	0.04	R	030331.9551	NE,NH	Pri5415	
2.4711	16.96	0.05	R	030331.9553	NE,NH	Pri5415	
2.4772	16.91	0.05	R	030331.9614	NE,NH	Pri5415	
2.4833	16.98	0.05	R	030331.9675	NE,NH	Pri5415	
2.4894	17	0.06	R	030331.9736	NE,NH	Pri5415	
2.4956	16.91	0.05	R	030331.9798	NE,NH	Pri5415	
2.5017	16.9	0.05	R	030331.9859	NE,NH	Pri5415	
2.5078	16.89	0.06	R	030331.992	NE,NH	Pri5415	
2.5139	17.09	0.06	R	030331.9981	NE,NH	Pri5415	
2.5200	16.87	0.05	R	030401.0042	NE,NH	Pri5415	
2.5262	16.93	0.05	R	030401.0104	NE,NH	Pri5415	
2.5323	16.83	0.05	R	030401.0165	NE,NH	Pri5415	
2.5385	16.93	0.06	R	030401.0227	NE,NH	Pri5415	
2.5447	16.9	0.06	R	030401.0289	NE,NH	Pri5415	
2.5508	16.85	0.05	R	030401.035	NE,NH	Pri5415	
2.5569	16.86	0.06	R	030401.0411	NE,NH	Pri5415	
2.5887	16.72	0.1	R	030401.0729	NE,NH	Pri2058	
2.5887	16.7	0.07	R	030401.0729	NE,NH	Pri5415	
2.6107	17.29	0.11	R	030401.0949	NE,NH	Pri5415	
2.61268	17.24	0.2	R	030401.09688	NE,NH	Pri2058	
2.6179	16.73	0.04	R	030401.1021	NE,NH	Pri5415	
2.6221	17.457	0.207	R	030401.1063	NE,NH	Tob2066	
2.62691	17.24	0.2	R	030401.11111	NE,NH	Pri2058	
2.6538	16.72	0.11	R	030401.138	NE,NH	Pri5415	
2.6582	16.844	0.13	R	030401.1424	NE,NH	Tob2066	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
2.6828	16.69	0.08	R	030401.167	NE,NH	Pri5415	
2.7033	17.056	0.141	R	030401.1875	NE,NH	Tob2066	
2.7035	17.11	0.05	R	030401.1877	NE,NH	Pri5415	
2.7308	16.9	0.04	R	030401.215	NE,NH	Pri5415	
2.7366	17.169	0.154	R	030401.2208	NE,NH	Tob2066	
2.7672	16.94	0.153	R	030401.2514	NE,NH	Tob 2066	
2.97182	17.281	0.077	R	030401.45602	NE,NH	Ura2106	
3.0151	17.03	0.04	R	030401.4993	NE,NH	Pri5415	
3.29525	17.082	0.021	R	030401.77945	NE,NH	Ibr2077	
3.2992	17.036	0.025	R	030401.7834	NE,NH	Ibr2077	
3.31065	16.977	0.044	R	030401.79485	NE,NH	Ibr2077	
3.31452	17.016	0.027	R	030401.79872	NE,NH	Ibr2077	
3.32947	17.045	0.047	R	030401.81367	NE,NH	Ibr2077	
3.33866	17.01	0.033	R	030401.82286	NE,NH	Ibr2077	
3.34	17.02	0.02	R	030401.8242	NE,NH	Can2074	
3.36335	17.022	0.011	R	030401.84755	NE,NH	Ibr2077	
3.3755	17.03	0.011	R	030401.8597	NE,NH	Ibr2077	
3.3912	17.07	0.05	R	030401.8754	NE,NH	Pav2067	
3.39268	17.006	0.023	R	030401.87688	NE,NH	Ibr2077	
3.571	17.16	0.03	R	030402.0552	NE,NH	Can2074	
3.5994	17.43	0.17	R	030402.0836	NE,NH	Pri5415	
3.6082	17.44	0.2	R	030402.0924	NE,NH	Pri2058	
3.62413	17.96	0.2	R	030402.10833	NE,NH	Pri2058	
3.6458	17.09	0.11	R	030402.13	NE,NH	Pri5415	
3.66719	18.06	0.2	R	030402.15139	,	Pri2058	
4.2806	17.83	0.08	R	030402.7648	,	Pav2083	
4.3087	17.76	0.08	R	030402.7929	NE,NH	Pav2083	
4.3594	17.89	0.07	R	030402.8436	NE,NH	Pav2083	
4.3897	17.76	0.09	R	030402.8739	NE,NH	Pav2083	
4.5625	17.94	0.1	R	030403.0467	NE,NH	Bur2079	
4.67105	18.36	0.2	R	030403.15525	NE,NH	Pri2058	
4.6714	17.79	0.04	R	030403.1556	NE,NH	Pri5415	
4.6758	17.7	0.07	R	030403.16	NE,NH	Pri5415	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
4.68043	18.46	0.2	R	030403.16463	NE,NH	Pri2058	
5.057	18.3	0.3	R	030403.5412	NE,NH	Pri2058	
5.0578	18.5	0.5	R	030403.542	NE,NH	Pri5415	
5.16298	17.842	0.018	R	030403.64718	NE,NH	Ibr2098	
5.16455	17.8	0.05	R	030403.64875	NE,NH	Ibr2084	
5.16733	17.853	0.013	R	030403.65153	NE,NH	Ibr2098	
5.17064	17.84	0.05	R	030403.65484	NE,NH	Ibr2084	
5.29415	17.787	0.027	R	030403.77835	NE,NH	Ibr2098	
5.30223	17.83	0.015	R	030403.78643	NE,NH	Ibr2098	
5.3097	17.766	0.013	R	030403.7939	NE,NH	Ibr2098	
5.33241	17.832	0.014	R	030403.81661	NE,NH	Ibr2098	
5.36333	17.801	0.014	R	030403.84753	NE,NH	Ibr2098	
5.37823	17.805	0.018	R	030403.86243	NE,NH	Ibr2098	
5.38569	17.806	0.014	R	030403.86989	NE,NH	Ibr2098	
6.2625	18.06	0.04	R	030404.7467	NE,NH	Kha2094	
6.2844	18.12	0.11	R	030404.7686	NE,NH	Pav2097	
6.3394	18.32	0.1	R	030404.8236	NE,NH	Pav2097	
6.357	18.04	0.07	R	030404.8412	NE,NH	Pav2097	
6.4238	18.14	0.02	R	030404.908	NE,NH	Sim2124	
6.6748	18.07	0.05	R	030405.159	NE,NH	Pri2058	
6.6788	18.43	0.04	R	030405.163	NE,NH	Pri5415	
7.4151	18.6	0.04	R	030405.8993	NE,NH	Pri5415	
7.4408	18.55	0.04	R	030405.925	NE,NH	Pri2058	
7.5958	18.56	0.1	R	030406.08	NE,NH	Kha2105	
7.6755	18.78	0.12	R	030406.1597	NE,NH	Pri2058	
7.6758	19	0.12	R	030406.16	NE,NH	Pri5415	
7.7012	18.74	0.1	R	030406.1854	NE,NH	Pri2058	
7.7012	18.59	0.08	R	030406.1854	NE,NH	Pri5415	
7.9901	18.85	0.04	R	030406.4743	NE,NH	Suz2116	
8.0515	19.2	0.5	R	030406.5357	NE,NH	Pri5415	
8.2887	18.812	0.056	R	030406.7729	NE,NH	Kha2108	
8.304	18.716	0.048	R	030406.7882	NE,NH	Kha2108	
8.306	18.75	0.02	R	030406.7902	NE,NH	Kha2119	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
8.3186	18.747	0.052	R	030406.8028	NE,NH	Kha2108	
8.3339	18.973	0.063	R	030406.8181	NE,NH	Kha2108	
8.3352	18.92	0.03	R	030406.8194	NE,NH	Pri5415	
8.346	18.76	0.02	R	030406.8302	NE,NH	Kha2119	
8.3491	18.956	0.062	R	030406.8333	NE,NH	Kha2108	
8.3637	18.859	0.055	R	030406.8479	NE,NH	Kha2108	
8.379	18.822	0.051	R	030406.8632	NE,NH	Kha2108	
8.386	18.71	0.02	R	030406.8702	NE,NH	Kha2119	
8.3943	18.921	0.057	R	030406.8785	NE,NH	Kha2108	
8.4089	18.749	0.049	R	030406.8931	NE,NH	Kha2108	
8.4241	18.67	0.046	R	030406.9083	NE,NH	Kha2108	
8.436	18.68	0.02	R	030406.9202	NE,NH	Kha2119	
8.4387	18.713	0.049	R	030406.9229	NE,NH	Kha2108	
8.476	18.7	0.03	R	030406.9602	NE,NH	Kha2119	
8.506	18.73	0.02	R	030406.9902	NE,NH	Kha2119	
8.6658	19.2	0.2	R	030407.15	NE,NH	Pri2058	
8.6658	19.15	0.11	R	030407.15	NE,NH	Pri5415	
9.256	18.77	0.03	R	030407.7402	NE,NH	Kha2119	
9.286	18.78	0.02	R	030407.7702	NE,NH	Kha2119	
9.2929	18.84	0.03	R	030407.7771	NE,NH	Ibr2160	
9.316	18.73	0.03	R	030407.8002	NE,NH	Kha2119	
9.316	18.8	0.03	R	030407.8002	NE,NH	Kha2119	
9.3908	19.24	0.29	R	030407.875	NE,NH	Kin2193	
9.3964	19.2	0.18	R	030407.8806	•	Kin2193	
9.4148	18.82	0.03	R	030407.899	NE,NH	Pri5415	
9.4221	18.92	0.13	R	030407.9063	NE,NH	Kin2193	
9.486	18.91	0.03	R	030407.9702	NE,NH	Kha2119	
9.526	18.83	0.03	R	030408.0102	NE,NH	Kha2119	
10.4442	19.35	0.25	R	030408.9284	NE,NH	Rum2146	
11.2887	19.1	0.06	R	030409.7729	NE,NH	Ibr2160	
11.4337	19.56	0.19	R	030409.9179	NE,NH	Rum2146	
11.4464	19.17	0.07	R	030409.9306	NE,NH	Pri5415	
11.6699	19.19	0.24	R	030410.1541	NE,NH	Pri5415	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
11.67	19.19	0.24	R	030410.1542	NE,NH	Pri2058	
12.2512	19.29	0.07	R	030410.7354	NE,NH	Ibr2160	
12.362	19.8	0.22	\mathbf{R}	030410.8462	NE,NH	Rum2146	
12.41265	19.34	0.05	\mathbf{R}	030410.89685	NE,NH	Tes2141	
13.43589	19.45	0.09	R	030411.92009	NE,NH	Tes 2141	
14.3628	19.3	0.18	R	030412.847	NE,NH	Klo2247	
16.38282	19.71	0.11	R	030414.86702	NE,NH	Tes 2141	
18.6471	19.36	0.09	R	030417.1313	NE,NH	Pri5415	
22.1602	19.92	0.13	\mathbf{R}	030420.6444	NE,NH	Ibr2160	
22.164	19.91	0.06	R	030420.6482	NE,NH	Ibr2191	
22.5291	20.25	0.75	R	030421.0133	NE,NH	Klo2247	
23.4537	19.9	0.4	R	030421.9379	NE,NH	Klo2247	
25.4475	20.11	0.07	R	030423.9317	NE,NH	Klo2246	
25.7866	20.17	0.05	R	030424.2708	NE,NH	Zha2171	
26.7776	20.16	0.05	R	030425.2618	NE,NH	Zha2171	
27.239	20.13	0.05	R	030425.7232	NE,NH	Ibr2191	
28.4245	20.35	0.29	R	030426.9087	NE,NH	Klo2246	
29.247	20.24	0.05	R	030427.7312	NE,NH	Ibr2191	
29.6547	20.49	0.07	\mathbf{R}	030428.1389	NE,NH	Zha2245	
31.6575	20.6	0.08	R	030430.1417	NE,NH	Zha2245	
32.4002	20.3	0.17	\mathbf{R}	030430.8844	NE,NH	Klo2246	
33.6602	20.64	0.08	\mathbf{R}	030502.1444	NE,NH	Zha2245	
35.4065	20.87	0.12	\mathbf{R}	030503.8907	NE,NH	Klo2246	
36.186	20.87	0.09	\mathbf{R}	030504.6702	NE,NH	Ibr2219	
36.4124	22.74	0.37	\mathbf{R}	030504.8966	NE,NH	Klo2247	
36.679	20.9	0.12	\mathbf{R}	030505.1632	NE,NH	Zha2245	
37.6471	20.9	0.12	\mathbf{R}	030506.1313	NE,NH	Zha2245	
38.171	20.74	0.1	\mathbf{R}	030506.6552	NE,NH	Ibr2219	
39.2241	20.72	0.09	R	030507.7083	NE,NH	Ibr2288	
39.6707	20.88	0.11	R	030508.1549	NE,NH	Zha2245	
45.229	20.93	0.43	R	030513.7132	NE,NH	Ibr2288	
47.2144	21.16	0.21	\mathbf{R}	030515.6986	NE,NH	Ibr2288	
49.2054	21.76	0.2	R	030517.6896	NE,NH	Ibr2288	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
51.2047	21.53	0.19	R	030519.6889	NE,NH	Ibr2288	
52.4221	21.65	0.28	R	030520.9063	NE,NH	Bur2260	
53.2471	20.91	0.18	R	030521.7313	NE,NH	Ibr2288	
53.4047	21.41	0.06	R	030521.8889	NE,NH	Bur2260	
54.2241	21.15	0.09	R	030522.7083	NE,NH	Ibr2288	
54.37	21.6	0.08	R	030522.8542	NE,NH	Bur2260	
56.4012	21.4	0.1	R	030524.8854	NE,NH	Bur2260	
60.3977	21.55	0.06	R	030528.8819	NE,NH	Bur2260	
64.2207	21.77	0.19	R	030601.7049	NE,NH	Ibr2288	
64.7346	21.42	0.07	R	030602.2188	NE,NH	Zha2265	
361.391	22.66	0.04	R	040324.875	NE,NH	Gor488	
361.391	22.86	0.04	R	040324.875	NE,NH	Gor488	2
0.046905	12.368426	0.02039	$R_{\rm C}$	030329.5311	NE,NH	Sat599	
0.047819	12.397145	0.02039	$R_{\rm C}$	030329.53201	NE,NH	Sat599	
0.048721	12.377942	0.020381	$R_{\rm C}$	030329.53292	NE,NH	Sat599	
0.04963	12.425912	0.02038	$R_{\rm C}$	030329.53382	NE,NH	Sat599	
0.050538	12.447802	0.020381	$R_{\rm C}$	030329.53473	NE,NH	Sat599	
0.051447	12.467579	0.02085	$R_{\rm C}$	030329.53564	NE,NH	Sat599	
0.052361	12.488605	0.020841	$R_{\rm C}$	030329.53656	NE,NH	Sat599	
0.052365	12.383	0.025	$R_{\rm C}$	030329.53656	NE,NH	Tor 597	
0.053106	12.419	0.026	$R_{\rm C}$	030329.5373	NE,NH	Tor 597	
0.0532	12.578	0.016	$R_{\rm C}$	030329.53739	NE,NH	Uem423	
0.053345	12.502503	0.020381	$R_{\rm C}$	030329.53754	NE,NH	Sat599	
0.05345	12.572	0.002	$R_{\rm C}$	030329.53764	NE,NH	Uem423	
0.053858	12.43	0.026	$R_{\rm C}$	030329.53805	NE,NH	Tor 597	
0.05394	12.57	0.006	$R_{\rm C}$	030329.53813	NE,NH	Uem423	
0.054329	12.50326	0.02038	$R_{\rm C}$	030329.53852	NE,NH	Sat599	
0.05444	12.576	0.004	$R_{\rm C}$	030329.53863	NE,NH	Uem423	
0.05461	12.441	0.026	$R_{\rm C}$	030329.5388	NE,NH	Tor 597	
0.05495	12.589	0.009	$R_{\rm C}$	030329.53914	NE,NH	Uem423	
0.0552	12.599	0.008	$R_{\rm C}$	030329.53939	NE,NH	Uem423	
0.055363	12.453	0.026	$R_{\rm C}$	030329.53956	NE,NH	Tor 597	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.05545	12.596	0.009	$R_{\rm C}$	030329.53964	NE,NH	Uem423	
0.05571	12.594	0.008	$R_{\rm C}$	030329.5399	NE,NH	Uem423	
0.05592	12.576	0.01	$R_{\rm C}$	030329.54011	NE,NH	Uem423	
0.056103	12.435	0.026	$R_{\rm C}$	030329.5403	NE,NH	Tor 597	
0.05623	12.612	0.001	$R_{\rm C}$	030329.54042	NE,NH	Uem423	
0.05649	12.621	0.004	$R_{\rm C}$	030329.54068	NE,NH	Uem423	
0.05684	12.615	0.009	$R_{\rm C}$	030329.54103	NE,NH	Uem423	
0.056856	12.464	0.026	$R_{\rm C}$	030329.54105	NE,NH	Tor 597	
0.05701	12.624	0.009	$R_{\rm C}$	030329.5412	NE,NH	Uem423	
0.057302	12.576338	0.02038	$R_{\rm C}$	030329.5415	NE,NH	Sat599	
0.05731	12.63	0.01	$R_{\rm C}$	030329.5415	NE,NH	Uem423	
0.05743	12.611	0.009	$R_{\rm C}$	030329.54162	NE,NH	Uem423	
0.057608	12.438	0.026	$R_{\rm C}$	030329.5418	NE,NH	Tor 597	
0.0578	12.639	0.006	$R_{\rm C}$	030329.54199	NE,NH	Uem423	
0.05834	12.644	0.012	$R_{\rm C}$	030329.54253	NE,NH	Uem423	
0.058349	12.535	0.026	$R_{\rm C}$	030329.54254	NE,NH	Tor 597	
0.0587	12.669	0.009	$R_{\rm C}$	030329.54289	NE,NH	Uem423	
0.05888	12.648	0.011	$R_{\rm C}$	030329.54307	NE,NH	Uem423	
0.059101	12.521	0.026	$R_{\rm C}$	030329.5433	NE,NH	Tor 597	
0.05915	12.644	0.003	$R_{\rm C}$	030329.54334	NE,NH	Uem423	
0.0597	12.637	0.001	$R_{\rm C}$	030329.54389	NE,NH	Uem423	
0.059853	12.496	0.026	$R_{\rm C}$	030329.54405	NE,NH	Tor 597	
0.05997	12.661	0.004	$R_{\rm C}$	030329.54416	NE,NH	Uem423	
0.060306	12.606465	0.021348	$R_{\rm C}$	030329.5445	NE,NH	Sat599	
0.06053	12.673	0.006	$R_{\rm C}$	030329.54472	NE,NH	Uem423	
0.060594	12.516	0.026	$R_{\rm C}$	030329.54479	NE,NH	Tor 597	
0.06081	12.662	0.017	$R_{\rm C}$	030329.545	NE,NH	Uem423	
0.061232	12.591319	0.02038	$R_{\rm C}$	030329.54543	NE,NH	Sat599	
0.061346	12.529	0.026	$R_{\rm C}$	030329.54554	NE,NH	Tor 597	
0.06137	12.683	0.009	$R_{\rm C}$	030329.54556	NE,NH	Uem423	
0.06179	12.694	0.009	$R_{\rm C}$	030329.54598	NE,NH	Uem423	
0.06194	12.683	0.02	$R_{\rm C}$	030329.54613	NE,NH	Uem423	
0.062099	12.579	0.026	$R_{\rm C}$	030329.54629	NE,NH	Tor 597	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.06214	12.650239	0.021881	$R_{\rm C}$	030329.54633	NE,NH	Sat599	
0.06222	12.708	0.005	$R_{\rm C}$	030329.54641	NE,NH	Uem423	
0.06251	12.692	0.008	$R_{\rm C}$	030329.5467	NE,NH	Uem423	
0.0628	12.692	0.008	$R_{\rm C}$	030329.54699	NE,NH	Uem423	
0.062851	12.547	0.026	$R_{\rm C}$	030329.54705	NE,NH	Tor 597	
0.06309	12.726	0.018	$R_{\rm C}$	030329.54728	NE,NH	Uem423	
0.063199	12.629606	0.02134	$R_{\rm C}$	030329.54739	NE,NH	Sat599	
0.06338	12.731	0.01	$R_{\rm C}$	030329.54757	NE,NH	Uem423	
0.063592	12.558	0.026	$R_{\rm C}$	030329.54779	NE,NH	Tor 597	
0.06379	12.683	0.009	$R_{\rm C}$	030329.54798	NE,NH	Uem423	
0.06397	12.719	0.015	$R_{\rm C}$	030329.54816	NE,NH	Uem423	
0.064257	12.655877	0.02188	$R_{\rm C}$	030329.54845	NE,NH	Sat599	
0.06426	12.738	0.01	$R_{\rm C}$	030329.54845	NE,NH	Uem423	
0.064344	12.562	0.026	$R_{\rm C}$	030329.54854	NE,NH	Tor 597	
0.06486	12.727	0.02	$R_{\rm C}$	030329.54905	NE,NH	Uem423	
0.065085	12.575	0.026	$R_{\rm C}$	030329.54928	NE,NH	Tor 597	
0.06516	12.745	0.007	$R_{\rm C}$	030329.54935	NE,NH	Uem423	
0.065172	12.673913	0.021348	$R_{\rm C}$	030329.54937	NE,NH	Sat599	
0.06546	12.756	0.023	$R_{\rm C}$	030329.54965	NE,NH	Uem423	
0.06576	12.757	0.007	$R_{\rm C}$	030329.54995	NE,NH	Uem423	
0.065837	12.603	0.027	$R_{\rm C}$	030329.55003	NE,NH	Tor 597	
0.06606	12.782	0.019	$R_{\rm C}$	030329.55025	NE,NH	Uem423	
0.06608	12.698772	0.021879	$R_{\rm C}$	030329.55027	NE,NH	Sat599	
0.06637	12.761	0.013	$R_{\rm C}$	030329.55056	NE,NH	Uem423	
0.066578	12.631	0.027	$R_{\rm C}$	030329.55077	NE,NH	Tor 597	
0.06667	12.775	0.021	$R_{\rm C}$	030329.55086	NE,NH	Uem423	
0.06698	12.782	0.02	$R_{\rm C}$	030329.55117	NE,NH	Uem423	
0.066983	12.693098	0.021341	$R_{\rm C}$	030329.55118	NE,NH	Sat599	
0.06729	12.772	0.016	$R_{\rm C}$	030329.55148	NE,NH	Uem423	
0.06733	12.629	0.027	$R_{\rm C}$	030329.55152	NE,NH	Tor 597	
0.0676	12.773	0.022	$R_{\scriptscriptstyle \rm C}$	030329.55179	NE,NH	Uem423	
0.067892	12.689643	0.02134	$R_{\rm C}$	030329.55209	NE,NH	Sat599	
0.06791	12.809	0.007	$R_{\rm C}$	030329.5521	NE,NH	Uem423	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.068083	12.577	0.026	$R_{\rm C}$	030329.55228	NE,NH	Tor597	
0.06823	12.774	0.014	R_{c}	030329.55242	NE,NH	Uem423	
0.06854	12.765	0.022	R_{c}	030329.55273	NE,NH	Uem423	
0.068795	12.727767	0.02304	R_{c}	030329.55299	NE,NH	Sat599	
0.068835	12.646	0.027	R_{c}	030329.55303	NE,NH	Tor 597	
0.06886	12.769	0.01	R_{c}	030329.55305	NE,NH	Uem423	
0.06918	12.774	0.028	R_{c}	030329.55337	NE,NH	Uem423	
0.06949	12.796	0.002	$R_{\rm C}$	030329.55368	NE,NH	Uem423	
0.069576	12.634	0.027	$R_{\rm C}$	030329.55377	NE,NH	Tor 597	
0.069703	12.74806	0.021873	$R_{\rm C}$	030329.5539	NE,NH	Sat599	
0.06982	12.788	0.015	R_{c}	030329.55401	NE,NH	Uem423	
0.07014	12.776	0.022	$R_{\rm C}$	030329.55433	NE,NH	Uem423	
0.070328	12.652	0.027	$R_{\rm c}$	030329.55452	NE,NH	Tor 597	
0.070612	12.713925	0.021873	$R_{\rm C}$	030329.55481	NE,NH	Sat599	
0.07079	12.787	0.016	$R_{\rm C}$	030329.55498	NE,NH	Uem423	
0.07108	12.646	0.027	$R_{\rm C}$	030329.55527	NE,NH	Tor 597	
0.07111	12.8	0.004	$R_{\rm C}$	030329.5553	NE,NH	Uem423	
0.07144	12.83	0.018	$R_{\rm C}$	030329.55563	NE,NH	Uem423	
0.071526	12.745643	0.021873	$R_{\rm C}$	030329.55572	NE,NH	Sat599	
0.071821	12.687	0.027	$R_{\rm C}$	030329.55602	NE,NH	Tor 597	
0.0721	12.807	0.023	$R_{\rm C}$	030329.55629	NE,NH	Uem423	
0.07243	12.839	0.046	$R_{\rm C}$	030329.55662	NE,NH	Uem423	
0.072439	12.720573	0.02188	$R_{\rm C}$	030329.55663	NE,NH	Sat599	
0.072573	12.673	0.027	$R_{\rm C}$	030329.55677	NE,NH	Tor 597	
0.07277	12.814	0.011	$R_{\rm C}$	030329.55696	NE,NH	Uem423	
0.07311	12.8	0.023	$R_{\rm C}$	030329.5573	NE,NH	Uem423	
0.073314	12.717	0.027	$R_{\rm C}$	030329.55751	NE,NH	Tor 597	
0.073354	12.755459	0.021881	$R_{\rm C}$	030329.55755	NE,NH	Sat599	
0.07344	12.824	0.019	$R_{\rm C}$	030329.55763	NE,NH	Uem423	
0.07378	12.824	0.011	$R_{\rm C}$	030329.55797	NE,NH	Uem423	
0.074066	12.731	0.027	$R_{\rm C}$	030329.55826	NE,NH	Tor 597	
0.07412	12.836	0.019	$R_{\rm C}$	030329.55831	NE,NH	Uem423	
0.074274	12.756456	0.021873	$R_{\rm C}$	030329.55847	NE,NH	Sat599	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.07446	12.832	0.006	$R_{\rm C}$	030329.55865	NE,NH	Uem423	
0.074807	12.713	0.027	$R_{\rm C}$	030329.559	NE,NH	Tor 597	
0.07481	12.893	0.024	$R_{\rm C}$	030329.559	NE,NH	Uem423	
0.07515	12.848	0.012	$R_{\rm C}$	030329.55934	NE,NH	Uem423	
0.075182	12.750826	0.021348	$R_{\rm C}$	030329.55938	NE,NH	Sat599	
0.0755	12.822	0.007	$R_{\rm C}$	030329.55969	NE,NH	Uem423	
0.075559	12.743	0.027	$R_{\rm C}$	030329.55975	NE,NH	Tor 597	
0.07585	12.843	0.012	$R_{\rm C}$	030329.56004	NE,NH	Uem423	
0.076172	12.791893	0.021873	$R_{\rm C}$	030329.56037	NE,NH	Sat599	
0.0763	12.738	0.027	$R_{\rm C}$	030329.56049	NE,NH	Tor 597	
0.07655	12.845	0.008	$R_{\rm C}$	030329.56074	NE,NH	Uem423	
0.0769	12.844	0.017	$R_{\rm C}$	030329.56109	NE,NH	Uem423	
0.077052	12.705	0.027	$R_{\rm C}$	030329.56125	NE,NH	Tor 597	
0.077243	12.794962	0.021339	$R_{\rm C}$	030329.56144	NE,NH	Sat599	
0.07726	12.819	0.012	$R_{\rm C}$	030329.56145	NE,NH	Uem423	
0.07762	12.872	0.007	$R_{\rm C}$	030329.56181	NE,NH	Uem423	
0.077793	12.738	0.027	$R_{\rm C}$	030329.56199	NE,NH	Tor 597	
0.07797	12.88	0.022	$R_{\rm C}$	030329.56216	NE,NH	Uem423	
0.07833	12.855	0.007	$R_{\rm C}$	030329.56252	NE,NH	Uem423	
0.078545	12.729	0.027	$R_{\rm C}$	030329.56274	NE,NH	Tor 597	
0.07859	12.9	0.01	$R_{\rm C}$	030329.56278	NE,NH	Uem423	
0.07906	12.883	0.008	$R_{\rm C}$	030329.56325	NE,NH	Uem423	
0.079286	12.75	0.028	$R_{\rm C}$	030329.56348	NE,NH	Tor 597	
0.07942	12.873	0.009	$R_{\rm C}$	030329.56361	NE,NH	Uem423	
0.07979	12.873	0.004	$R_{\rm C}$	030329.56398	NE,NH	Uem423	
0.07998	12.919	0.01	$R_{\rm C}$	030329.56417	NE,NH	Uem423	
0.080039	12.787	0.028	$R_{\rm C}$	030329.56423	NE,NH	Tor 597	
0.08053	12.908	0.016	$R_{\rm C}$	030329.56472	NE,NH	Uem423	
0.080791	12.756	0.028	$R_{\rm C}$	030329.56499	NE,NH	Tor 597	
0.0809	12.924	0.001	$R_{\rm C}$	030329.56509	NE,NH	Uem423	
0.08127	12.907	0.006	$R_{\rm C}$	030329.56546	NE,NH	Uem423	
0.081532	12.752	0.028	$R_{\rm C}$	030329.56573	NE,NH	Tor 597	
0.08165	12.919	0.018	$R_{\rm C}$	030329.56584	NE,NH	Uem423	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.08203	12.912	0.009	$R_{\rm C}$	030329.56622	NE,NH	Uem423	
0.082284	12.774	0.028	$R_{\rm C}$	030329.56648	NE,NH	Tor 597	
0.0824	12.925	0.01	$R_{\rm C}$	030329.56659	NE,NH	Uem423	
0.082647	12.836449	0.021339	$R_{\rm C}$	030329.56684	NE,NH	Sat599	
0.08275	12.959	0.009	$R_{\rm C}$	030329.56694	NE,NH	Uem423	
0.083025	12.787	0.028	$R_{\rm C}$	030329.56722	NE,NH	Tor 597	
0.08317	12.941	0.016	$R_{\rm C}$	030329.56736	NE,NH	Uem423	
0.08355	12.942	0.02	$R_{\rm C}$	030329.56774	NE,NH	Uem423	
0.083777	12.855	0.028	$R_{\rm C}$	030329.56797	NE,NH	Tor 597	
0.08394	12.944	0.004	$R_{\rm C}$	030329.56813	NE,NH	Uem423	
0.08432	12.958	0.028	$R_{\rm C}$	030329.56851	NE,NH	Uem423	
0.084529	12.792	0.028	$R_{\rm C}$	030329.56872	NE,NH	Tor 597	
0.084695	12.850409	0.021338	$R_{\rm C}$	030329.56889	NE,NH	Sat599	
0.08493	12.92	0.01	$R_{\rm C}$	030329.56912	NE,NH	Uem423	
0.08527	12.811	0.028	$R_{\rm C}$	030329.56946	NE,NH	Tor 597	
0.0855	12.962	0.017	$R_{\rm C}$	030329.56969	NE,NH	Uem423	
0.08589	12.97	0.022	$R_{\rm C}$	030329.57008	NE,NH	Uem423	
0.086022	12.797	0.028	$R_{\rm C}$	030329.57022	NE,NH	Tor 597	
0.08629	12.947	0.015	$R_{\rm C}$	030329.57048	NE,NH	Uem423	
0.086599	12.905882	0.021338	$R_{\rm C}$	030329.57079	NE,NH	Sat599	
0.08669	13	0.011	$R_{\rm C}$	030329.57088	NE,NH	Uem423	
0.086775	12.838	0.028	$R_{\rm C}$	030329.57097	NE,NH	Tor 597	
0.08749	12.987	0.005	$R_{\rm C}$	030329.57168	NE,NH	Uem423	
0.087515	12.867	0.028	$R_{\rm C}$	030329.57171	NE,NH	Tor 597	
0.08789	13.015	0.033	$R_{\rm C}$	030329.57208	NE,NH	Uem423	
0.088268	12.869	0.028	$R_{\rm C}$	030329.57246	NE,NH	Tor 597	
0.0883	13.005	0.013	$R_{\rm C}$	030329.57249	NE,NH	Uem423	
0.088503	12.938228	0.021338	$R_{\rm C}$	030329.5727	NE,NH	Sat599	
0.08871	12.993	0.006	$R_{\rm C}$	030329.5729	NE,NH	Uem423	
0.089008	12.838	0.028	$R_{\rm C}$	030329.5732	NE,NH	Tor 597	
0.08912	12.979	0.009	$R_{\rm C}$	030329.57331	NE,NH	Uem423	
0.08954	12.97	0.009	$R_{\rm C}$	030329.57373	NE,NH	Uem423	
0.089761	12.891	0.029	$R_{\rm C}$	030329.57396	NE,NH	Tor 597	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.08994	13.008	0.02	$R_{\rm C}$	030329.57413	NE,NH	Uem423	
0.090256	12.963182	0.021338	$R_{\rm C}$	030329.57445	NE,NH	Sat599	
0.09035	12.996	0.026	$R_{\rm C}$	030329.57454	NE,NH	Uem423	
0.090513	12.865	0.028	$R_{\rm C}$	030329.57471	NE,NH	Tor 597	
0.09077	13.002	0.009	$R_{\rm C}$	030329.57496	NE,NH	Uem423	
0.091176	12.981648	0.021338	$R_{\rm C}$	030329.57537	NE,NH	Sat599	
0.09119	13.016	0.004	$R_{\rm C}$	030329.57538	NE,NH	Uem423	
0.091265	12.942	0.029	$R_{\rm C}$	030329.57546	NE,NH	Tor 597	
0.09161	13.014	0.02	$R_{\rm C}$	030329.5758	NE,NH	Uem423	
0.092018	12.883	0.029	$R_{\rm C}$	030329.57621	NE,NH	Tor 597	
0.09203	13.03	0.004	$R_{\rm C}$	030329.57622	NE,NH	Uem423	
0.09246	13.016	0.003	$R_{\rm C}$	030329.57665	NE,NH	Uem423	
0.092623	13.006881	0.022436	$R_{\rm C}$	030329.57682	NE,NH	Sat599	
0.09277	12.89	0.029	$R_{\rm C}$	030329.57696	NE,NH	Tor 597	
0.09288	13.03	0.019	$R_{\rm C}$	030329.57707	NE,NH	Uem423	
0.09331	13.044	0.003	$R_{\rm C}$	030329.5775	NE,NH	Uem423	
0.093511	12.938	0.029	$R_{\rm C}$	030329.57771	NE,NH	Tor 597	
0.09374	13.059	0	$R_{\rm C}$	030329.57793	NE,NH	Uem423	
0.094263	12.931	0.029	$R_{\rm C}$	030329.57846	NE,NH	Tor 597	
0.09461	13.061	0.025	$R_{\rm C}$	030329.5788	NE,NH	Uem423	
0.094677	13.031546	0.023651	$R_{\rm C}$	030329.57887	NE,NH	Sat599	
0.095004	12.879	0.029	$R_{\rm C}$	030329.5792	NE,NH	Tor 597	
0.09505	13.103	0.033	$R_{\rm C}$	030329.57924	NE,NH	Uem423	
0.09549	13.066	0.009	$R_{\rm C}$	030329.57968	NE,NH	Uem423	
0.095756	12.943	0.029	$R_{\rm C}$	030329.57995	NE,NH	Tor 597	
0.09593	13.066	0.004	$R_{\rm C}$	030329.58012	NE,NH	Uem423	
0.09637	13.068	0.021	$R_{\rm C}$	030329.58056	NE,NH	Uem423	
0.09682	13.097	0.009	$R_{\rm C}$	030329.58101	NE,NH	Uem423	
0.09726	13.075	0.009	$R_{\rm C}$	030329.58145	NE,NH	Uem423	
0.09771	13.099	0.014	$R_{\rm C}$	030329.5819	NE,NH	Uem423	
0.09816	13.09	0.011	$R_{\scriptscriptstyle \rm C}$	030329.58235	NE,NH	Uem423	
0.09862	13.098	0.001	$R_{\rm C}$	030329.58281	NE,NH	Uem423	
0.098765	12.975	0.029	$R_{\rm C}$	030329.58296	NE,NH	Tor 597	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.09907	13.119	0.009	$R_{\rm C}$	030329.58326	NE,NH	Uem423	
0.099506	12.994	0.03	$R_{\rm C}$	030329.5837	NE,NH	Tor 597	
0.09953	13.118	0.013	$R_{\rm C}$	030329.58372	NE,NH	Uem423	
0.09999	13.108	0.022	$R_{\rm C}$	030329.58418	NE,NH	Uem423	
0.100258	12.982	0.029	$R_{\rm C}$	030329.58445	NE,NH	Tor 597	
0.10045	13.13	0.009	$R_{\rm C}$	030329.58464	NE,NH	Uem423	
0.10091	13.103	0.01	$R_{\rm C}$	030329.5851	NE,NH	Uem423	
0.100999	12.948	0.029	$R_{\rm C}$	030329.58519	NE,NH	Tor 597	
0.10138	13.107	0.008	$R_{\rm C}$	030329.58557	NE,NH	Uem423	
0.10185	13.172	0.037	$R_{\rm C}$	030329.58604	NE,NH	Uem423	
0.10232	13.138	0.018	$R_{\rm C}$	030329.58651	NE,NH	Uem423	
0.102492	13.027	0.03	$R_{\rm C}$	030329.58669	NE,NH	Tor 597	
0.10279	13.117	0.019	$R_{\rm C}$	030329.58698	NE,NH	Uem423	
0.103245	13.03	0.03	$R_{\rm C}$	030329.58744	NE,NH	Tor 597	
0.10326	13.156	0	$R_{\rm C}$	030329.58745	NE,NH	Uem423	
0.10374	13.126	0.007	$R_{\rm C}$	030329.58793	NE,NH	Uem423	
0.103997	12.995	0.03	$R_{\rm C}$	030329.58819	NE,NH	Tor 597	
0.10422	13.143	0.008	$R_{\rm C}$	030329.58841	NE,NH	Uem423	
0.104583	13.119708	0.02303	$R_{\rm C}$	030329.58878	NE,NH	Sat599	
0.1047	13.143	0.024	$R_{\rm C}$	030329.58889	NE,NH	Uem423	
0.104738	13.012	0.03	$R_{\rm C}$	030329.58893	NE,NH	Tor 597	
0.10518	13.186	0.017	$R_{\rm C}$	030329.58937	NE,NH	Uem423	
0.105478	12.977	0.029	$R_{\rm C}$	030329.58967	NE,NH	Tor 597	
0.1057	13.174	0.009	$R_{\rm C}$	030329.58989	NE,NH	Uem423	
0.10616	13.181	0.001	$R_{\rm C}$	030329.59035	NE,NH	Uem423	
0.106231	13.041	0.03	$R_{\rm c}$	030329.59043	NE,NH	Tor 597	
0.106399	13.154489	0.023029	$R_{\rm c}$	030329.59059	NE,NH	Sat599	
0.10665	13.131	0.005	$R_{\rm C}$	030329.59084	NE,NH	Uem423	
0.106971	13.006	0.03	$R_{\rm C}$	030329.59117	NE,NH	Tor 597	
0.10714	13.201	0.012	$R_{\rm C}$	030329.59133	NE,NH	Uem423	
0.10763	13.174	0.004	$R_{\rm C}$	030329.59182	NE,NH	Uem423	
0.107724	13.039	0.03	$R_{\rm c}$	030329.59192	NE,NH	Tor 597	
0.10813	13.226	0.016	$R_{\rm C}$	030329.59232	NE,NH	Uem423	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.108298	13.162711	0.022435	$R_{\rm c}$	030329.59249	NE,NH	Sat599	
0.108476	13.084	0.03	$R_{\rm C}$	030329.59267	NE,NH	Tor 597	
0.10863	13.196	0.005	$R_{\rm c}$	030329.59282	NE,NH	Uem423	
0.10913	13.2	0.008	$R_{\rm C}$	030329.59332	NE,NH	Uem423	
0.109217	13.067	0.03	$R_{\rm C}$	030329.59341	NE,NH	Tor 597	
0.10963	13.22	0.007	$R_{\rm C}$	030329.59382	NE,NH	Uem423	
0.109969	13.097	0.031	$R_{\rm C}$	030329.59416	NE,NH	Tor 597	
0.11014	13.216	0.019	$R_{\rm C}$	030329.59433	NE,NH	Uem423	
0.110196	13.194161	0.022434	$R_{\rm C}$	030329.59439	NE,NH	Sat599	
0.11065	13.192	0.003	$R_{\rm C}$	030329.59484	NE,NH	Uem423	
0.11071	13.129	0.031	$R_{\rm C}$	030329.5949	NE,NH	Tor 597	
0.11116	13.238	0.009	$R_{\rm C}$	030329.59535	NE,NH	Uem423	
0.111462	13.073	0.03	$R_{\rm C}$	030329.59566	NE,NH	Tor 597	
0.11167	13.188	0	$R_{\rm C}$	030329.59586	NE,NH	Uem423	
0.111938	13.177839	0.022435	$R_{\rm C}$	030329.59613	NE,NH	Sat599	
0.11219	13.223	0.027	$R_{\rm C}$	030329.59638	NE,NH	Uem423	
0.112214	13.1	0.031	$R_{\rm C}$	030329.59641	NE,NH	Tor 597	
0.11271	13.24	0.01	$R_{\rm C}$	030329.5969	NE,NH	Uem423	
0.112955	13.109	0.031	$R_{\rm C}$	030329.59715	NE,NH	Tor 597	
0.11323	13.256	0.01	$R_{\rm C}$	030329.59742	NE,NH	Uem423	
0.113384	13.210277	0.023029	$R_{\rm C}$	030329.59758	NE,NH	Sat599	
0.113708	13.062	0.03	$R_{\rm C}$	030329.5979	NE,NH	Tor 597	
0.11375	13.273	0.036	$R_{\rm C}$	030329.59794	NE,NH	Uem423	
0.11427	13.27	0.01	$R_{\rm C}$	030329.59846	NE,NH	Uem423	
0.11446	13.161	0.031	$R_{\rm C}$	030329.59865	NE,NH	Tor 597	
0.1148	13.299	0.016	$R_{\rm C}$	030329.59899	NE,NH	Uem423	
0.115201	13.099	0.031	$R_{\rm C}$	030329.5994	NE,NH	Tor 597	
0.115282	13.21166	0.023029	$R_{\rm C}$	030329.59948	NE,NH	Sat599	
0.11533	13.288	0.006	$R_{\rm C}$	030329.59952	NE,NH	Uem423	
0.11586	13.253	0.005	$R_{\rm C}$	030329.60005	NE,NH	Uem423	
0.115953	13.076	0.03	$R_{\rm C}$	030329.60015	NE,NH	Tor 597	
0.1164	13.27	0.01	$R_{\rm C}$	030329.60059	NE,NH	Uem423	
0.116694	13.167	0.031	$R_{\rm C}$	030329.60089	NE,NH	Tor 597	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.116879	13.238846	0.023651	$R_{\rm C}$	030329.60107	NE,NH	Sat599	
0.11694	13.232	0.025	$R_{\rm C}$	030329.60113	NE,NH	Uem423	
0.117446	13.138	0.031	$R_{\rm C}$	030329.60164	NE,NH	Tor 597	
0.11747	13.275	0.007	$R_{\rm C}$	030329.60166	NE,NH	Uem423	
0.117944	13.231872	0.02365	$R_{\rm C}$	030329.60214	NE,NH	Sat599	
0.11802	13.247	0.001	$R_{\rm C}$	030329.60221	NE,NH	Uem423	
0.118198	13.213	0.032	$R_{\rm C}$	030329.60239	NE,NH	Tor 597	
0.11856	13.274	0.005	$R_{\rm C}$	030329.60275	NE,NH	Uem423	
0.118939	13.141	0.031	$R_{\rm C}$	030329.60313	NE,NH	Tor 597	
0.11911	13.281	0.011	$R_{\rm C}$	030329.6033	NE,NH	Uem423	
0.11966	13.299	0.006	$R_{\rm C}$	030329.60385	NE,NH	Uem423	
0.119691	13.143	0.031	$R_{\rm C}$	030329.60389	NE,NH	Tor 597	
0.12021	13.294	0.016	$R_{\rm C}$	030329.6044	NE,NH	Uem423	
0.120444	13.18	0.031	$R_{\rm C}$	030329.60464	NE,NH	Tor 597	
0.12077	13.311	0.006	$R_{\rm C}$	030329.60496	NE,NH	Uem423	
0.121184	13.167	0.031	$R_{\rm C}$	030329.60538	NE,NH	Tor 597	
0.12132	13.335	0.005	$R_{\rm C}$	030329.60551	NE,NH	Uem423	
0.12188	13.328	0.018	$R_{\rm C}$	030329.60607	NE,NH	Uem423	
0.121937	13.23	0.032	$R_{\rm C}$	030329.60613	NE,NH	Tor 597	
0.12245	13.324	0.01	$R_{\rm C}$	030329.60664	NE,NH	Uem423	
0.122689	13.17	0.031	$R_{\rm C}$	030329.60688	NE,NH	Tor 597	
0.12301	13.307	0.004	$R_{\rm C}$	030329.6072	NE,NH	Uem423	
0.12343	13.181	0.031	$R_{\rm C}$	030329.60762	NE,NH	Tor 597	
0.12358	13.353	0.013	$R_{\rm C}$	030329.60777	NE,NH	Uem423	
0.12415	13.3	0.015	$R_{\rm C}$	030329.60834	NE,NH	Uem423	
0.124182	13.167	0.031	$R_{\rm C}$	030329.60838	NE,NH	Tor 597	
0.12472	13.369	0.015	$R_{\rm C}$	030329.60891	NE,NH	Uem423	
0.124923	13.195	0.032	$R_{\rm C}$	030329.60912	NE,NH	Tor 597	
0.1253	13.317	0.008	$R_{\rm C}$	030329.60949	NE,NH	Uem423	
0.125687	13.251	0.032	$R_{\rm C}$	030329.60988	NE,NH	Tor 597	
0.12588	13.301	0.007	$R_{\rm C}$	030329.61007	NE,NH	Uem423	
0.126427	13.214	0.032	$R_{\rm C}$	030329.61062	NE,NH	Tor 597	
0.12646	13.326	0.015	$R_{\rm C}$	030329.61065	NE,NH	Uem423	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.12704	13.394	0.002	$R_{\scriptscriptstyle C}$	030329.61123	NE,NH	Uem423	
0.12718	13.158	0.031	$R_{\rm C}$	030329.61137	NE,NH	Tor 597	
0.12763	13.397	0.019	$R_{\rm C}$	030329.61182	NE,NH	Uem423	
0.127932	13.25	0.032	$R_{\rm C}$	030329.61213	NE,NH	Tor 597	
0.12822	13.338	0.005	$R_{\rm C}$	030329.61241	NE,NH	Uem423	
0.128684	13.245	0.032	$R_{\rm C}$	030329.61288	NE,NH	Tor 597	
0.12881	13.369	0.011	$R_{\rm C}$	030329.613	NE,NH	Uem423	
0.1293	13.3803	0.031	$R_{\rm C}$	030329.61349	NE,NH	Res440	
0.1294	13.375	0.018	$R_{\rm C}$	030329.61359	NE,NH	Uem423	
0.129425	13.244	0.032	$R_{\rm C}$	030329.61362	NE,NH	Tor 597	
0.13	13.366	0.012	$R_{\rm C}$	030329.61419	NE,NH	Uem423	
0.130177	13.256	0.032	$R_{\rm C}$	030329.61437	NE,NH	Tor 597	
0.1306	13.35	0.009	$R_{\rm C}$	030329.61479	NE,NH	Uem423	
0.13093	13.259	0.032	$R_{\rm C}$	030329.61512	NE,NH	Tor 597	
0.1312	13.399	0.019	$R_{\rm C}$	030329.61539	NE,NH	Uem423	
0.13167	13.245	0.032	$R_{\rm C}$	030329.61586	NE,NH	Tor 597	
0.13181	13.361	0.008	$R_{\rm C}$	030329.616	NE,NH	Uem423	
0.13242	13.387	0.019	$R_{\rm C}$	030329.61661	NE,NH	Uem423	
0.132423	13.3	0.033	$R_{\rm C}$	030329.61662	NE,NH	Tor 597	
0.132594	13.371932	0.021368	$R_{\rm C}$	030329.61679	NE,NH	Sat599	
0.13303	13.428	0.01	$R_{\rm C}$	030329.61722	NE,NH	Uem423	
0.1331	13.3743	0.041	$R_{\rm C}$	030329.61729	NE,NH	Res440	
0.133164	13.24	0.032	$R_{\rm C}$	030329.61736	NE,NH	Tor 597	
0.13364	13.381	0	$R_{\rm C}$	030329.61783	NE,NH	Uem423	
0.133916	13.224	0.032	$R_{\rm C}$	030329.61811	NE,NH	Tor 597	
0.13426	13.404	0.015	$R_{\rm C}$	030329.61845	NE,NH	Uem423	
0.134657	13.306	0.033	$R_{\rm C}$	030329.61885	NE,NH	Tor 597	
0.13488	13.406	0.009	$R_{\rm C}$	030329.61907	NE,NH	Uem423	
0.135409	13.323	0.033	$R_{\rm C}$	030329.6196	NE,NH	Tor 597	
0.1355	13.399	0.02	$R_{\rm C}$	030329.61969	NE,NH	Uem423	
0.13613	13.414	0.001	$R_{\rm C}$	030329.62032	NE,NH	Uem423	
0.136161	13.299	0.033	$R_{\rm C}$	030329.62036	NE,NH	Tor 597	
0.13676	13.443	0.013	$R_{\rm C}$	030329.62095	NE,NH	Uem423	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.136802	13.413576	0.0219	$R_{\rm C}$	030329.621	NE,NH	Sat599	
0.136914	13.286	0.033	$R_{\rm c}$	030329.62111	NE,NH	Tor 597	
0.13739	13.426	0.005	$R_{\rm c}$	030329.62158	NE,NH	Uem423	
0.137654	13.322	0.033	$R_{\rm c}$	030329.62185	NE,NH	Tor 597	
0.13802	13.457	0.015	$R_{\rm c}$	030329.62221	NE,NH	Uem423	
0.138407	13.329	0.033	$R_{\rm c}$	030329.6226	NE,NH	Tor 597	
0.13866	13.439	0.011	$R_{\rm c}$	030329.62285	NE,NH	Uem423	
0.1387	13.431	0.032	$R_{\rm c}$	030329.62289	NE,NH	Res440	
0.139018	13.416769	0.021368	$R_{\rm C}$	030329.62321	NE,NH	Sat599	
0.139147	13.35	0.034	$R_{\rm c}$	030329.62334	NE,NH	Tor 597	
0.1392	13.4123	0.06	$R_{\rm c}$	030329.62339	NE,NH	Res440	
0.1393	13.468	0.014	$R_{\rm C}$	030329.62349	NE,NH	Uem423	
0.1399	13.301	0.033	$R_{\rm c}$	030329.62409	NE,NH	Tor 597	
0.13994	13.48	0.018	$R_{\rm c}$	030329.62413	NE,NH	Uem423	
0.140545	13.447643	0.021367	$R_{\rm C}$	030329.62474	NE,NH	Sat599	
0.14059	13.486	0.013	$R_{\rm C}$	030329.62478	NE,NH	Uem423	
0.140652	13.345	0.033	$R_{\rm C}$	030329.62485	NE,NH	Tor 597	
0.14124	13.497	0.012	$R_{\rm C}$	030329.62543	NE,NH	Uem423	
0.141393	13.371	0.034	$R_{\rm C}$	030329.62559	NE,NH	Tor 597	
0.141766	13.46028	0.0219	$R_{\rm C}$	030329.62596	NE,NH	Sat599	
0.14189	13.469	0.009	$R_{\rm C}$	030329.62608	NE,NH	Uem423	
0.142133	13.349	0.034	$R_{\rm C}$	030329.62633	NE,NH	Tor 597	
0.1424	13.422	0.025	$R_{\rm C}$	030329.62659	NE,NH	Res440	
0.14254	13.474	0.035	$R_{\rm C}$	030329.62673	NE,NH	Uem423	
0.142842	13.454416	0.0219	$R_{\rm c}$	030329.62704	NE,NH	Sat599	
0.142886	13.36	0.034	$R_{\rm C}$	030329.62708	NE,NH	Tor 597	
0.1432	13.487	0.007	$R_{\rm C}$	030329.62739	NE,NH	Uem423	
0.143638	13.313	0.033	$R_{\rm C}$	030329.62783	NE,NH	Tor 597	
0.14386	13.517	0.026	$R_{\rm c}$	030329.62805	NE,NH	Uem423	
0.144063	13.470994	0.022463	$R_{\rm C}$	030329.62826	NE,NH	Sat599	
0.144379	13.337	0.033	$R_{\rm c}$	030329.62857	NE,NH	Tor 597	
0.14453	13.445	0.004	$R_{\rm c}$	030329.62872	NE,NH	Uem423	
0.14507	13.482393	0.023689	$R_{\rm C}$	030329.62926	NE,NH	Sat599	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.145131	13.361	0.034	$R_{\rm C}$	030329.62933	NE,NH	Tor597	
0.14519	13.505	0.008	$R_{\rm C}$	030329.62938	NE,NH	Uem423	
0.14586	13.522	0.006	$R_{\rm C}$	030329.63005	NE,NH	Uem423	
0.145883	13.367	0.034	$R_{\rm C}$	030329.63008	NE,NH	Tor 597	
0.145909	13.459846	0.022465	$R_{\rm C}$	030329.6301	NE,NH	Sat599	
0.14654	13.528	0.015	$R_{\rm C}$	030329.63073	NE,NH	Uem423	
0.146624	13.36	0.034	$R_{\rm C}$	030329.63082	NE,NH	Tor 597	
0.14721	13.498	0.011	$R_{\rm C}$	030329.6314	NE,NH	Uem423	
0.147377	13.371	0.034	$R_{\rm C}$	030329.63157	NE,NH	Tor 597	
0.14789	13.52	0.02	$R_{\rm C}$	030329.63208	NE,NH	Uem423	
0.148129	13.373	0.034	$R_{\rm C}$	030329.63232	NE,NH	Tor 597	
0.14858	13.54	0.029	$R_{\rm C}$	030329.63277	NE,NH	Uem423	
0.14887	13.436	0.035	$R_{\rm C}$	030329.63306	NE,NH	Tor 597	
0.14926	13.538	0.02	$R_{\rm C}$	030329.63345	NE,NH	Uem423	
0.149633	13.409	0.034	$R_{\rm C}$	030329.63383	NE,NH	Tor 597	
0.14995	13.536	0.016	$R_{\rm C}$	030329.63414	NE,NH	Uem423	
0.150386	13.387	0.034	$R_{\rm C}$	030329.63458	NE,NH	Tor 597	
0.15064	13.538	0.026	$R_{\rm C}$	030329.63483	NE,NH	Uem423	
0.151138	13.351	0.034	$R_{\rm C}$	030329.63533	NE,NH	Tor 597	
0.15134	13.537	0.023	$R_{\rm C}$	030329.63553	NE,NH	Uem423	
0.151879	13.436	0.035	$R_{\rm C}$	030329.63607	NE,NH	Tor 597	
0.15204	13.538	0.012	$R_{\rm C}$	030329.63623	NE,NH	Uem423	
0.15243	13.503389	0.023064	$R_{\rm C}$	030329.63662	NE,NH	Sat599	
0.152631	13.377	0.034	$R_{\rm C}$	030329.63683	NE,NH	Tor 597	
0.15274	13.548	0.012	$R_{\rm C}$	030329.63693	NE,NH	Uem423	
0.153372	13.399	0.034	$R_{\rm C}$	030329.63757	NE,NH	Tor 597	
0.15344	13.61	0.017	$R_{\rm C}$	030329.63763	NE,NH	Uem423	
0.153947	13.531476	0.021899	$R_{\rm C}$	030329.63814	NE,NH	Sat599	
0.154124	13.406	0.034	$R_{\rm C}$	030329.63832	NE,NH	Tor 597	
0.15415	13.563	0.015	$R_{\rm C}$	030329.63834	NE,NH	Uem423	
0.15486	13.566	0.016	$R_{\rm C}$	030329.63905	NE,NH	Uem423	
0.154865	13.454	0.035	$R_{\rm C}$	030329.63906	NE,NH	Tor 597	
0.155231	13.54316	0.023059	$R_{\rm C}$	030329.63943	NE,NH	Sat599	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.15558	13.575	0.039	$R_{\rm C}$	030329.63977	NE,NH	Uem423	
0.155617	13.43	0.035	$R_{\rm C}$	030329.63981	NE,NH	Tor 597	
0.1557	13.506	0.024	$R_{\rm C}$	030329.63989	NE,NH	Res440	
0.1563	13.561	0.008	$R_{\rm C}$	030329.64049	NE,NH	Uem423	
0.156358	13.431	0.035	$R_{\rm C}$	030329.64055	NE,NH	Tor 597	
0.156457	13.54507	0.022463	$R_{\rm C}$	030329.64065	NE,NH	Sat599	
0.15702	13.594	0.021	$R_{\rm C}$	030329.64121	NE,NH	Uem423	
0.157122	13.487	0.036	$R_{\rm C}$	030329.64132	NE,NH	Tor 597	
0.157522	13.545601	0.023057	$R_{\rm C}$	030329.64172	NE,NH	Sat599	
0.15774	13.591	0.014	$R_{\rm C}$	030329.64193	NE,NH	Uem423	
0.157863	13.451	0.035	$R_{\rm C}$	030329.64206	NE,NH	Tor 597	
0.15847	13.595	0.027	$R_{\rm C}$	030329.64266	NE,NH	Uem423	
0.158615	13.486	0.035	$R_{\rm C}$	030329.64281	NE,NH	Tor 597	
0.159113	13.54535	0.022463	$R_{\rm C}$	030329.64331	NE,NH	Sat599	
0.1592	13.611	0.013	$R_{\rm C}$	030329.64339	NE,NH	Uem423	
0.159356	13.422	0.035	$R_{\rm C}$	030329.64355	NE,NH	Tor 597	
0.15994	13.633	0.016	$R_{\rm C}$	030329.64413	NE,NH	Uem423	
0.160103	13.529616	0.022468	$R_{\rm C}$	030329.6443	NE,NH	Sat599	
0.160108	13.484	0.035	$R_{\rm C}$	030329.6443	NE,NH	Tor 597	
0.16068	13.591	0.022	$R_{\rm C}$	030329.64487	NE,NH	Uem423	
0.160849	13.501	0.036	$R_{\rm C}$	030329.64504	NE,NH	Tor 597	
0.161081	13.56298	0.022463	$R_{\rm C}$	030329.64528	NE,NH	Sat599	
0.16142	13.587	0.016	$R_{\rm C}$	030329.64561	NE,NH	Uem423	
0.161601	13.473	0.035	$R_{\rm C}$	030329.6458	NE,NH	Tor 597	
0.16216	13.601	0.025	$R_{\rm C}$	030329.64635	NE,NH	Uem423	
0.162296	13.569223	0.022464	$R_{\rm C}$	030329.64649	NE,NH	Sat599	
0.162342	13.483	0.035	$R_{\rm C}$	030329.64654	NE,NH	Tor 597	
0.16291	13.608	0.011	$R_{\rm C}$	030329.6471	NE,NH	Uem423	
0.163094	13.468	0.035	$R_{\rm C}$	030329.64729	NE,NH	Tor 597	
0.163431	13.5811	0.022464	$R_{\rm C}$	030329.64763	NE,NH	Sat599	
0.16366	13.637	0.015	$R_{\rm C}$	030329.64785	NE,NH	Uem423	
0.163835	13.494	0.036	$R_{\rm C}$	030329.64803	NE,NH	Tor 597	
0.1643	13.577	0.024	$R_{\rm C}$	030329.64849	NE,NH	Res440	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.16442	13.617	0.029	$R_{\rm C}$	030329.64861	NE,NH	Uem423	
0.164587	13.537	0.036	$R_{\rm C}$	030329.64878	NE,NH	Tor 597	
0.164789	13.598641	0.022463	$R_{\rm C}$	030329.64898	NE,NH	Sat599	
0.16518	13.638	0.009	$R_{\rm C}$	030329.64937	NE,NH	Uem423	
0.165328	13.53	0.036	$R_{\rm C}$	030329.64952	NE,NH	Tor 597	
0.16594	13.636	0.018	$R_{\rm C}$	030329.65013	NE,NH	Uem423	
0.16608	13.483	0.035	$R_{\rm C}$	030329.65027	NE,NH	Tor 597	
0.16623	13.624136	0.023056	$R_{\rm C}$	030329.65042	NE,NH	Sat599	
0.1667	13.644	0.014	$R_{\rm C}$	030329.65089	NE,NH	Uem423	
0.166821	13.489	0.036	$R_{\rm C}$	030329.65102	NE,NH	Tor 597	
0.16747	13.623	0.015	$R_{\rm C}$	030329.65166	NE,NH	Uem423	
0.167573	13.52	0.036	$R_{\rm C}$	030329.65177	NE,NH	Tor 597	
0.16825	13.634	0.021	$R_{\rm C}$	030329.65244	NE,NH	Uem423	
0.168326	13.509	0.036	$R_{\rm C}$	030329.65252	NE,NH	Tor 597	
0.169	13.619	0.034	$R_{\rm C}$	030329.65319	NE,NH	Res440	
0.16902	13.665	0.004	$R_{\rm C}$	030329.65321	NE,NH	Uem423	
0.169066	13.517	0.036	$R_{\rm C}$	030329.65326	NE,NH	Tor 597	
0.1698	13.642	0.014	$R_{\rm C}$	030329.65399	NE,NH	Uem423	
0.169819	13.523	0.036	$R_{\rm C}$	030329.65401	NE,NH	Tor 597	
0.170559	13.5	0.036	$R_{\rm C}$	030329.65475	NE,NH	Tor 597	
0.17059	13.64	0.015	$R_{\rm C}$	030329.65478	NE,NH	Uem423	
0.171312	13.502	0.036	$R_{\rm C}$	030329.65551	NE,NH	Tor 597	
0.17137	13.671	0.007	$R_{\rm C}$	030329.65556	NE,NH	Uem423	
0.172064	13.553	0.037	$R_{\rm C}$	030329.65626	NE,NH	Tor 597	
0.17217	13.669	0.016	$R_{\rm C}$	030329.65636	NE,NH	Uem423	
0.172816	13.543	0.036	$R_{\rm c}$	030329.65701	NE,NH	Tor 597	
0.17296	13.681	0.017	$R_{\rm C}$	030329.65715	NE,NH	Uem423	
0.1732	13.636	0.04	$R_{\scriptscriptstyle \rm C}$	030329.65739	NE,NH	Res440	
0.173557	13.512	0.036	$R_{\rm c}$	030329.65775	NE,NH	Tor 597	
0.17376	13.68	0.013	$R_{\rm C}$	030329.65795	NE,NH	Uem423	
0.174309	13.533	0.036	$R_{\rm C}$	030329.6585	NE,NH	Tor 597	
0.17456	13.662	0.026	$R_{\rm C}$	030329.65875	NE,NH	Uem423	
0.17505	13.545	0.036	$R_{\rm C}$	030329.65924	NE,NH	Tor 597	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.17537	13.674	0.016	$R_{\rm C}$	030329.65956	NE,NH	Uem423	
0.175802	13.51	0.036	$R_{\rm C}$	030329.66	NE,NH	Tor 597	
0.17618	13.702	0.021	$R_{\rm C}$	030329.66037	NE,NH	Uem423	
0.176543	13.559	0.037	$R_{\rm C}$	030329.66074	NE,NH	Tor 597	
0.17699	13.651	0.011	$R_{\rm C}$	030329.66118	NE,NH	Uem423	
0.177307	13.547	0.036	$R_{\rm C}$	030329.6615	NE,NH	Tor 597	
0.17781	13.664	0.013	$R_{\rm C}$	030329.662	NE,NH	Uem423	
0.178059	13.503	0.036	$R_{\rm C}$	030329.66225	NE,NH	Tor 597	
0.178371	13.651394	0.023686	$R_{\rm C}$	030329.66257	NE,NH	Sat599	
0.17863	13.667	0.022	$R_{\rm C}$	030329.66282	NE,NH	Uem423	
0.178812	13.518	0.036	$R_{\rm C}$	030329.66301	NE,NH	Tor 597	
0.17945	13.68	0.013	$R_{\rm C}$	030329.66364	NE,NH	Uem423	
0.179552	13.521	0.036	$R_{\rm C}$	030329.66375	NE,NH	Tor 597	
0.18028	13.683	0.007	$R_{\rm C}$	030329.66447	NE,NH	Uem423	
0.180305	13.565	0.037	$R_{\rm C}$	030329.6645	NE,NH	Tor 597	
0.181045	13.597	0.037	$R_{\rm C}$	030329.66524	NE,NH	Tor 597	
0.18111	13.688	0.01	$R_{\rm C}$	030329.6653	NE,NH	Uem423	
0.181798	13.553	0.037	$R_{\rm C}$	030329.66599	NE,NH	Tor 597	
0.18195	13.652	0.013	$R_{\rm C}$	030329.66614	NE,NH	Uem423	
0.181958	13.654749	0.023686	$R_{\rm C}$	030329.66615	NE,NH	Sat599	
0.18255	13.643	0.038	$R_{\rm C}$	030329.66674	NE,NH	Tor 597	
0.18279	13.658	0.019	$R_{\rm C}$	030329.66698	NE,NH	Uem423	
0.183291	13.627	0.038	$R_{\rm C}$	030329.66749	NE,NH	Tor 597	
0.18363	13.695	0.024	$R_{\rm C}$	030329.66782	NE,NH	Uem423	
0.184043	13.573	0.037	$R_{\rm C}$	030329.66824	NE,NH	Tor 597	
0.18448	13.688	0.014	$R_{\rm C}$	030329.66867	NE,NH	Uem423	
0.184784	13.559	0.037	$R_{\rm C}$	030329.66898	NE,NH	Tor 597	
0.18533	13.681	0.024	$R_{\rm C}$	030329.66952	NE,NH	Uem423	
0.185536	13.595	0.037	$R_{\rm C}$	030329.66973	NE,NH	Tor 597	
0.185858	13.686719	0.023064	$R_{\rm C}$	030329.67005	NE,NH	Sat599	
0.1861	13.7243	0.034	$R_{\rm C}$	030329.67029	NE,NH	Res440	
0.18619	13.742	0.009	$R_{\scriptscriptstyle \mathrm{C}}$	030329.67038	NE,NH	Uem423	
0.186277	13.601	0.037	$R_{\rm C}$	030329.67047	NE,NH	Tor 597	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.187029	13.605	0.037	$R_{\rm C}$	030329.67122	NE,NH	Tor597	
0.18704	13.747	0.018	$R_{\rm C}$	030329.67123	NE,NH	Uem423	
0.187768	13.67701	0.023064	$R_{\rm C}$	030329.67196	NE,NH	Sat599	
0.18777	13.533	0.036	$R_{\rm C}$	030329.67196	NE,NH	Tor 597	
0.18791	13.724	0.007	$R_{\rm C}$	030329.6721	NE,NH	Uem423	
0.188522	13.629	0.038	$R_{\rm C}$	030329.67272	NE,NH	Tor 597	
0.18878	13.716	0.01	$R_{\rm C}$	030329.67297	NE,NH	Uem423	
0.189263	13.567	0.037	$R_{\rm C}$	030329.67346	NE,NH	Tor 597	
0.18965	13.736	0.01	$R_{\rm C}$	030329.67384	NE,NH	Uem423	
0.190015	13.672	0.039	$R_{\rm C}$	030329.67421	NE,NH	Tor 597	
0.19052	13.745	0.025	$R_{\rm C}$	030329.67471	NE,NH	Uem423	
0.190585	13.714668	0.023686	$R_{\rm C}$	030329.67478	NE,NH	Sat599	
0.190756	13.628	0.038	$R_{\rm C}$	030329.67495	NE,NH	Tor 597	
0.1914	13.695	0.015	$R_{\rm C}$	030329.67559	NE,NH	Uem423	
0.191508	13.581	0.037	$R_{\rm C}$	030329.6757	NE,NH	Tor 597	
0.192261	13.605	0.037	$R_{\rm C}$	030329.67646	NE,NH	Tor 597	
0.19229	13.758	0.023	$R_{\rm C}$	030329.67648	NE,NH	Uem423	
0.193002	13.611	0.038	$R_{\rm C}$	030329.6772	NE,NH	Tor 597	
0.19317	13.723	0.024	$R_{\rm C}$	030329.67736	NE,NH	Uem423	
0.193754	13.664	0.038	$R_{\rm C}$	030329.67795	NE,NH	Tor 597	
0.19406	13.736	0.016	$R_{\rm C}$	030329.67825	NE,NH	Uem423	
0.1944	13.7233	0.044	$R_{\rm C}$	030329.67859	NE,NH	Res440	
0.194506	13.652	0.038	$R_{\rm C}$	030329.6787	NE,NH	Tor 597	
0.19496	13.749	0.019	$R_{\rm C}$	030329.67915	NE,NH	Uem423	
0.195247	13.64	0.038	$R_{\rm C}$	030329.67944	NE,NH	Tor 597	
0.19586	13.75	0.011	$R_{\rm C}$	030329.68005	NE,NH	Uem423	
0.195999	13.67	0.039	$R_{\rm C}$	030329.68019	NE,NH	Tor 597	
0.196752	13.61	0.038	$R_{\rm C}$	030329.68095	NE,NH	Tor 597	
0.19676	13.739	0.03	$R_{\rm C}$	030329.68095	NE,NH	Uem423	
0.197492	13.706	0.039	$R_{\rm C}$	030329.68169	NE,NH	Tor 597	
0.19767	13.749	0.015	$R_{\rm C}$	030329.68186	NE,NH	Uem423	
0.198245	13.64	0.038	$R_{\rm C}$	030329.68244	NE,NH	Tor 597	
0.19859	13.778	0.017	$R_{\rm C}$	030329.68278	NE,NH	Uem423	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.198985	13.628	0.038	$R_{\rm C}$	030329.68318	NE,NH	Tor597	
0.1995	13.736	0.027	$R_{\rm C}$	030329.68369	NE,NH	Uem423	
0.199738	13.741	0.04	$R_{\rm C}$	030329.68393	NE,NH	Tor 597	
0.1999	13.724	0.025	$R_{\rm C}$	030329.68409	NE,NH	Res440	
0.20042	13.744	0.014	$R_{\rm C}$	030329.68461	NE,NH	Uem423	
0.20049	13.663	0.038	$R_{\rm C}$	030329.68468	NE,NH	Tor 597	
0.201122	13.717135	0.025002	$R_{\rm C}$	030329.68532	NE,NH	Sat599	
0.201231	13.631	0.038	$R_{\rm C}$	030329.68543	NE,NH	Tor 597	
0.20135	13.773	0.019	$R_{\rm C}$	030329.68554	NE,NH	Uem423	
0.201983	13.631	0.038	$R_{\rm C}$	030329.68618	NE,NH	Tor 597	
0.20228	13.787	0.022	$R_{\rm C}$	030329.68647	NE,NH	Uem423	
0.2023	13.7893	0.031	$R_{\rm C}$	030329.68649	NE,NH	Res440	
0.202338	13.744408	0.025001	$R_{\rm C}$	030329.68653	NE,NH	Sat599	
0.202735	13.674	0.039	$R_{\rm C}$	030329.68693	NE,NH	Tor 597	
0.20321	13.805	0.024	$R_{\rm C}$	030329.6874	NE,NH	Uem423	
0.203476	13.705	0.039	$R_{\rm C}$	030329.68767	NE,NH	Tor 597	
0.203634	13.742619	0.025002	$R_{\rm C}$	030329.68783	NE,NH	Sat599	
0.20415	13.781	0.019	$R_{\rm C}$	030329.68834	NE,NH	Uem423	
0.204228	13.624	0.038	$R_{\rm C}$	030329.68842	NE,NH	Tor 597	
0.204774	13.749782	0.024334	$R_{\rm C}$	030329.68897	NE,NH	Sat599	
0.204969	13.648	0.038	$R_{\rm C}$	030329.68916	NE,NH	Tor 597	
0.20509	13.779	0.004	$R_{\rm C}$	030329.68928	NE,NH	Uem423	
0.205721	13.696	0.039	$R_{\rm C}$	030329.68992	NE,NH	Tor 597	
0.206007	13.762164	0.025001	$R_{\rm C}$	030329.6902	NE,NH	Sat599	
0.20604	13.797	0.011	$R_{\rm C}$	030329.69023	NE,NH	Uem423	
0.206474	13.624	0.038	$R_{\rm C}$	030329.69067	NE,NH	Tor 597	
0.20699	13.781	0.017	$R_{\rm C}$	030329.69118	NE,NH	Uem423	
0.207214	13.69	0.039	$R_{\rm C}$	030329.69141	NE,NH	Tor 597	
0.207533	13.738056	0.024333	$R_{\rm C}$	030329.69173	NE,NH	Sat599	
0.20794	13.758	0.005	$R_{\rm C}$	030329.69213	NE,NH	Uem423	
0.207967	13.662	0.038	$R_{\rm C}$	030329.69216	NE,NH	Tor 597	
0.208719	13.69	0.039	$R_{\rm C}$	030329.69291	NE,NH	Tor 597	
0.2089	13.846	0.009	$R_{\scriptscriptstyle \mathrm{C}}$	030329.69309	NE,NH	Uem423	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.208911	13.788112	0.025692	$R_{\rm C}$	030329.69311	NE,NH	Sat599	
0.209471	13.673	0.039	$R_{\rm C}$	030329.69367	NE,NH	Tor 597	
0.20987	13.805	0.008	$R_{\rm C}$	030329.69406	NE,NH	Uem423	
0.210212	13.708	0.039	$R_{\rm C}$	030329.69441	NE,NH	Tor 597	
0.210676	13.780532	0.025693	$R_{\rm C}$	030329.69487	NE,NH	Sat599	
0.21084	13.774	0.025	$R_{\rm C}$	030329.69503	NE,NH	Uem423	
0.210964	13.679	0.039	$R_{\rm C}$	030329.69516	NE,NH	Tor 597	
0.211705	13.721	0.04	$R_{\rm C}$	030329.6959	NE,NH	Tor 597	
0.21181	13.805	0.052	$R_{\rm C}$	030329.696	NE,NH	Uem423	
0.212441	13.818887	0.025692	$R_{\rm C}$	030329.69664	NE,NH	Sat599	
0.212469	13.681	0.039	$R_{\rm C}$	030329.69666	NE,NH	Tor 597	
0.2127	13.829	0.026	$R_{\rm C}$	030329.69689	NE,NH	Res440	
0.21279	13.844	0.009	$R_{\rm C}$	030329.69698	NE,NH	Uem423	
0.213221	13.769	0.04	$R_{\rm C}$	030329.69742	NE,NH	Tor 597	
0.213662	13.817956	0.025693	$R_{\rm C}$	030329.69786	NE,NH	Sat599	
0.21377	13.807	0.007	$R_{\rm C}$	030329.69796	NE,NH	Uem423	
0.213962	13.73	0.04	$R_{\rm C}$	030329.69816	NE,NH	Tor 597	
0.214714	13.741	0.04	$R_{\rm C}$	030329.69891	NE,NH	Tor 597	
0.21476	13.792	0.01	$R_{\rm C}$	030329.69895	NE,NH	Uem423	
0.215027	13.804825	0.025001	$R_{\rm C}$	030329.69922	NE,NH	Sat599	
0.215455	13.737	0.04	$R_{\rm C}$	030329.69965	NE,NH	Tor 597	
0.21575	13.807	0.021	$R_{\rm C}$	030329.69994	NE,NH	Uem423	
0.216196	13.71	0.039	$R_{\rm C}$	030329.70039	NE,NH	Tor 597	
0.21674	13.794	0.011	$R_{\rm C}$	030329.70093	NE,NH	Uem423	
0.216948	13.68	0.039	$R_{\rm C}$	030329.70114	NE,NH	Tor 597	
0.217701	13.725	0.04	$R_{\rm C}$	030329.7019	NE,NH	Tor 597	
0.21774	13.817	0.02	$R_{\rm C}$	030329.70193	NE,NH	Uem423	
0.218441	13.8	0.041	$R_{\rm C}$	030329.70264	NE,NH	Tor 597	
0.21875	13.831	0.024	$R_{\rm C}$	030329.70294	NE,NH	Uem423	
0.219194	13.765	0.04	$R_{\rm C}$	030329.70339	NE,NH	Tor 597	
0.21976	13.845	0.018	$R_{\rm C}$	030329.70395	NE,NH	Uem423	
0.219934	13.723	0.04	$R_{\rm C}$	030329.70413	NE,NH	Tor 597	
0.220698	13.739	0.04	$R_{\rm C}$	030329.70489	NE,NH	Tor 597	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.22077	13.829	0.016	$R_{\rm c}$	030329.70496	NE,NH	Uem423	
0.221149	13.844538	0.03184	$R_{\rm c}$	030329.70534	NE,NH	Sat599	
0.221439	13.793	0.041	$R_{\rm c}$	030329.70563	NE,NH	Tor 597	
0.22179	13.826	0.014	$R_{\rm C}$	030329.70598	NE,NH	Uem423	
0.222064	13.784716	0.03184	$R_{\rm C}$	030329.70626	NE,NH	Sat599	
0.222191	13.804	0.041	$R_{\rm C}$	030329.70639	NE,NH	Tor 597	
0.22282	13.838	0.021	$R_{\rm C}$	030329.70701	NE,NH	Uem423	
0.222932	13.818	0.041	$R_{\rm C}$	030329.70713	NE,NH	Tor 597	
0.222984	13.856801	0.032667	$R_{\rm C}$	030329.70718	NE,NH	Sat599	
0.223684	13.815	0.041	$R_{\rm C}$	030329.70788	NE,NH	Tor 597	
0.22384	13.917	0.019	$R_{\rm C}$	030329.70803	NE,NH	Uem423	
0.223903	13.86078	0.034339	$R_{\rm C}$	030329.7081	NE,NH	Sat599	
0.224425	13.751	0.04	$R_{\rm C}$	030329.70862	NE,NH	Tor 597	
0.224811	13.868707	0.0335	$R_{\rm C}$	030329.70901	NE,NH	Sat599	
0.22488	13.892	0.012	$R_{\rm C}$	030329.70907	NE,NH	Uem423	
0.225177	13.8	0.041	$R_{\rm C}$	030329.70937	NE,NH	Tor 597	
0.225732	13.81882	0.0335	$R_{\rm C}$	030329.70993	NE,NH	Sat599	
0.225918	13.773	0.041	$R_{\rm C}$	030329.71011	NE,NH	Tor 597	
0.22592	13.93	0	$R_{\rm C}$	030329.71011	NE,NH	Uem423	
0.2263	13.854	0.026	$R_{\rm C}$	030329.71049	NE,NH	Res440	
0.22664	13.878472	0.03267	$R_{\rm C}$	030329.71083	NE,NH	Sat599	
0.22667	13.771	0.041	$R_{\rm C}$	030329.71086	NE,NH	Tor 597	
0.22696	13.892	0.005	$R_{\rm C}$	030329.71115	NE,NH	Uem423	
0.227411	13.742	0.04	$R_{\rm C}$	030329.71161	NE,NH	Tor 597	
0.227554	13.86788	0.035189	$R_{\rm C}$	030329.71175	NE,NH	Sat599	
0.22801	13.92	0.022	$R_{\rm C}$	030329.7122	NE,NH	Uem423	
0.228164	13.852	0.042	$R_{\rm C}$	030329.71236	NE,NH	Tor 597	
0.228916	13.781	0.041	$R_{\rm C}$	030329.71311	NE,NH	Tor 597	
0.22906	13.865	0.016	$R_{\rm C}$	030329.71325	NE,NH	Uem423	
0.229389	13.87519	0.034342	$R_{\rm C}$	030329.71358	NE,NH	Sat599	
0.229668	13.837	0.042	$R_{\rm C}$	030329.71386	NE,NH	Tor 597	
0.23012	13.893	0.037	$R_{\rm C}$	030329.71431	NE,NH	Uem423	
0.230303	13.924992	0.03519	$R_{\rm C}$	030329.7145	NE,NH	Sat599	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.230409	13.839	0.042	$R_{\rm C}$	030329.7146	NE,NH	Tor597	
0.231161	13.717	0.039	$R_{\rm C}$	030329.71536	NE,NH	Tor 597	
0.23118	13.963	0.029	$R_{\rm C}$	030329.71537	NE,NH	Uem423	
0.231229	13.904896	0.03519	$R_{\rm C}$	030329.71542	NE,NH	Sat599	
0.231914	13.797	0.041	$R_{\rm C}$	030329.71611	NE,NH	Tor 597	
0.232143	13.896827	0.036046	$R_{\rm C}$	030329.71634	NE,NH	Sat599	
0.23225	13.865	0.007	$R_{\rm C}$	030329.71644	NE,NH	Uem423	
0.232666	13.714	0.039	$R_{\rm C}$	030329.71686	NE,NH	Tor 597	
0.233138	13.855221	0.034342	$R_{\rm C}$	030329.71733	NE,NH	Sat599	
0.23332	13.874	0.023	$R_{\rm C}$	030329.71751	NE,NH	Uem423	
0.233407	13.805	0.041	$R_{\rm C}$	030329.7176	NE,NH	Tor 597	
0.234159	13.883	0.043	$R_{\rm C}$	030329.71835	NE,NH	Tor 597	
0.23439	13.949	0.017	$R_{\rm C}$	030329.71858	NE,NH	Uem423	
0.234911	13.897	0.043	$R_{\rm C}$	030329.71911	NE,NH	Tor 597	
0.235198	13.983124	0.038657	$R_{\rm C}$	030329.71939	NE,NH	Sat599	
0.23548	13.925	0.015	$R_{\rm C}$	030329.71967	NE,NH	Uem423	
0.235652	13.852	0.042	$R_{\rm C}$	030329.71985	NE,NH	Tor 597	
0.236404	13.752	0.04	$R_{\rm C}$	030329.7206	NE,NH	Tor 597	
0.23656	13.991	0.032	$R_{\rm C}$	030329.72075	NE,NH	Uem423	
0.237157	13.861	0.042	$R_{\rm C}$	030329.72135	NE,NH	Tor 597	
0.23766	13.932	0.005	$R_{\rm C}$	030329.72185	NE,NH	Uem423	
0.237909	13.845	0.042	$R_{\rm C}$	030329.7221	NE,NH	Tor 597	
0.238661	13.829	0.042	$R_{\rm C}$	030329.72286	NE,NH	Tor 597	
0.23875	13.881	0.025	$R_{\rm C}$	030329.72294	NE,NH	Uem423	
0.239402	13.857	0.042	$R_{\rm C}$	030329.7236	NE,NH	Tor 597	
0.23985	13.947	0.01	$R_{\rm C}$	030329.72404	NE,NH	Uem423	
0.240154	13.774	0.041	$R_{\rm C}$	030329.72435	NE,NH	Tor 597	
0.240907	13.835	0.042	$R_{\rm C}$	030329.7251	NE,NH	Tor 597	
0.24096	13.961	0.016	$R_{\rm C}$	030329.72515	NE,NH	Uem423	
0.241647	13.923	0.044	$R_{\rm C}$	030329.72584	NE,NH	Tor 597	
0.24207	13.969	0.029	$R_{\rm C}$	030329.72626	NE,NH	Uem423	
0.2422	13.916	0.026	$R_{\rm C}$	030329.72639	NE,NH	Res440	
0.2424	13.771	0.041	$R_{\rm C}$	030329.72659	NE,NH	Tor 597	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.24314	13.868	0.043	$R_{\rm C}$	030329.72733	NE,NH	Tor597	
0.24319	13.909	0.032	$R_{\rm C}$	030329.72738	NE,NH	Uem423	
0.243904	13.788	0.041	$R_{\rm C}$	030329.7281	NE,NH	Tor 597	
0.24431	13.971	0.024	$R_{\rm C}$	030329.7285	NE,NH	Uem423	
0.244645	13.88	0.043	$R_{\rm C}$	030329.72884	NE,NH	Tor 597	
0.245409	13.83	0.042	$R_{\rm C}$	030329.7296	NE,NH	Tor 597	
0.24544	13.982	0.059	$R_{\rm C}$	030329.72963	NE,NH	Uem423	
0.24615	13.869	0.043	$R_{\rm C}$	030329.73034	NE,NH	Tor 597	
0.24657	13.982	0.038	$R_{\rm C}$	030329.73076	NE,NH	Uem423	
0.246902	13.82	0.042	$R_{\rm C}$	030329.7311	NE,NH	Tor 597	
0.247643	13.893	0.043	$R_{\rm C}$	030329.73184	NE,NH	Tor 597	
0.24771	14.017	0.017	$R_{\rm C}$	030329.7319	NE,NH	Uem423	
0.248395	13.848	0.042	$R_{\rm C}$	030329.73259	NE,NH	Tor 597	
0.24885	13.96	0.018	$R_{\rm C}$	030329.73304	NE,NH	Uem423	
0.249147	13.91	0.043	$R_{\rm C}$	030329.73334	NE,NH	Tor 597	
0.2499	13.869	0.043	$R_{\rm C}$	030329.73409	NE,NH	Tor 597	
0.25	13.959	0.024	$R_{\rm C}$	030329.73419	NE,NH	Uem423	
0.25064	13.804	0.041	$R_{\rm C}$	030329.73483	NE,NH	Tor 597	
0.251099	13.951092	0.038661	$R_{\rm C}$	030329.73529	NE,NH	Sat599	
0.25116	14	0.014	$R_{\rm C}$	030329.73535	NE,NH	Uem423	
0.251404	13.934	0.044	$R_{\rm C}$	030329.7356	NE,NH	Tor 597	
0.252133	13.869	0.043	$R_{\rm C}$	030329.73633	NE,NH	Tor 597	
0.25232	13.965	0.007	$R_{\rm C}$	030329.73651	NE,NH	Uem423	
0.252638	13.953026	0.04043	$R_{\rm C}$	030329.73683	NE,NH	Sat599	
0.252874	13.934	0.044	$R_{\rm C}$	030329.73707	NE,NH	Tor 597	
0.25348	13.975	0.007	$R_{\rm C}$	030329.73767	NE,NH	Uem423	
0.253627	13.924	0.044	$R_{\rm C}$	030329.73782	NE,NH	Tor 597	
0.254235	13.977307	0.041325	$R_{\rm C}$	030329.73843	NE,NH	Sat599	
0.254379	13.954	0.044	$R_{\rm C}$	030329.73857	NE,NH	Tor 597	
0.25465	14.007	0.023	$R_{\rm C}$	030329.73884	NE,NH	Uem423	
0.255131	13.852	0.042	$R_{\rm C}$	030329.73933	NE,NH	Tor 597	
0.2556	13.982	0.027	$R_{\rm C}$	030329.73979	NE,NH	Res440	
0.255798	13.981133	0.043124	$R_{\rm C}$	030329.73999	NE,NH	Sat599	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.25583	13.985	0.021	$R_{\rm C}$	030329.74002	NE,NH	Uem423	
0.255872	13.843	0.042	$R_{\rm C}$	030329.74007	NE,NH	Tor 597	
0.256624	14.028	0.046	$R_{\rm C}$	030329.74082	NE,NH	Tor 597	
0.25701	14.025	0.007	$R_{\rm C}$	030329.7412	NE,NH	Uem423	
0.257325	13.911193	0.042228	$R_{\rm C}$	030329.74152	NE,NH	Sat599	
0.257365	13.921	0.044	$R_{\rm C}$	030329.74156	NE,NH	Tor 597	
0.258117	14.001	0.046	$R_{\rm C}$	030329.74231	NE,NH	Tor 597	
0.2582	14.023	0.022	$R_{\rm C}$	030329.74239	NE,NH	Uem423	
0.258858	13.989288	0.047702	$R_{\rm C}$	030329.74305	NE,NH	Sat599	
0.258881	14.042	0.047	$R_{\rm C}$	030329.74308	NE,NH	Tor 597	
0.25939	13.99	0.014	$R_{\rm C}$	030329.74358	NE,NH	Uem423	
0.259622	13.943	0.044	$R_{\rm C}$	030329.74382	NE,NH	Tor 597	
0.260363	13.936	0.044	$R_{\rm C}$	030329.74456	NE,NH	Tor 597	
0.260392	14.057466	0.04586	$R_{\rm C}$	030329.74459	NE,NH	Sat599	
0.26058	14.03	0.019	$R_{\rm C}$	030329.74477	NE,NH	Uem423	
0.261115	13.88	0.043	$R_{\rm C}$	030329.74531	NE,NH	Tor 597	
0.26179	14.04	0.01	$R_{\rm C}$	030329.74598	NE,NH	Uem423	
0.261867	14.059	0.047	$R_{\rm C}$	030329.74606	NE,NH	Tor 597	
0.261925	14.037759	0.048625	$R_{\rm C}$	030329.74612	NE,NH	Sat599	
0.26299	14.023	0.015	$R_{\rm C}$	030329.74718	NE,NH	Uem423	
0.263465	13.944805	0.048647	$R_{\rm C}$	030329.74766	NE,NH	Sat599	
0.26421	14.035	0.035	$R_{\rm C}$	030329.7484	NE,NH	Uem423	
0.265004	14.03391	0.048645	$R_{\rm C}$	030329.7492	NE,NH	Sat599	
0.26543	14.027	0.011	$R_{\rm C}$	030329.74962	NE,NH	Uem423	
0.26665	14.08	0.028	$R_{\rm C}$	030329.75084	NE,NH	Uem423	
0.26788	14.053	0.018	$R_{\rm C}$	030329.75207	NE,NH	Uem423	
0.2686	14.03	0.027	$R_{\rm C}$	030329.75279	NE,NH	Res440	
0.26912	14.07	0.028	$R_{\rm C}$	030329.75331	NE,NH	Uem423	
0.27036	14.077	0.011	$R_{\rm C}$	030329.75455	NE,NH	Uem423	
0.27161	14.083	0.023	$R_{\rm C}$	030329.7558	NE,NH	Uem423	
0.27286	14.047	0.02	$R_{\rm C}$	030329.75705	NE,NH	Uem423	
0.27412	14.097	0.015	$R_{\rm C}$	030329.75831	NE,NH	Uem423	
0.27539	14.13	0.019	$R_{\rm C}$	030329.75958	NE,NH	Uem423	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.27711	14.05	0.01	$R_{\rm C}$	030329.7613	NE,NH	Uem423	
0.2785	14.12	0.01	$R_{\rm C}$	030329.76269	NE,NH	Uem423	
0.27965	14.11	0.01	$R_{\rm c}$	030329.76384	NE,NH	Uem423	
0.28051	14.087	0.008	$R_{\rm C}$	030329.7647	NE,NH	Uem423	
0.281	14.098	0.052	$R_{\scriptscriptstyle \mathrm{C}}$	030329.76519	NE,NH	Res440	
0.2818	14.137	0.029	$R_{\rm C}$	030329.76599	NE,NH	Uem423	
0.2831	14.12	0.042	$R_{\rm C}$	030329.76729	NE,NH	Uem423	
0.28441	14.143	0.015	$R_{\rm C}$	030329.7686	NE,NH	Uem423	
0.28572	14.15	0.012	$R_{\rm C}$	030329.76991	NE,NH	Uem423	
0.28704	14.12	0.032	$R_{\rm C}$	030329.77123	NE,NH	Uem423	
0.28837	14.16	0.025	$R_{\rm C}$	030329.77256	NE,NH	Uem423	
0.2897	14.137	0.011	$R_{\rm C}$	030329.77389	NE,NH	Uem423	
0.29104	14.153	0.011	$R_{\rm C}$	030329.77523	NE,NH	Uem423	
0.29238	14.13	0.037	$R_{\rm C}$	030329.77657	NE,NH	Uem423	
0.29373	14.143	0.016	$R_{\rm C}$	030329.77792	NE,NH	Uem423	
0.29508	14.217	0.018	$R_{\rm C}$	030329.77927	NE,NH	Uem423	
0.29645	14.18	0.025	R_{c}	030329.78064	NE,NH	Uem423	
0.29781	14.18	0.012	$R_{\rm C}$	030329.782	NE,NH	Uem423	
0.29919	14.207	0.033	$R_{\rm C}$	030329.78338	NE,NH	Uem423	
0.30057	14.205	0.021	$R_{\rm C}$	030329.78476	NE,NH	Uem423	
0.30196	14.22	0.028	$R_{\rm C}$	030329.78615	NE,NH	Uem423	
0.30335	14.225	0.007	R_{c}	030329.78754	NE,NH	Uem423	
0.30475	14.22	0.01	R_{c}	030329.78894	,	Uem423	
0.30616	14.24	0.014	$R_{\rm C}$	030329.79035	,	Uem423	
0.30757	14.225	0.007	R_{c}	030329.79176	NE,NH	Uem423	
0.30899	14.255	0.035	$R_{\rm C}$	030329.79318	NE,NH	Uem423	
0.3097	14.21	0.032	R_{c}	030329.79389	NE,NH	Res440	
0.31042	14.245	0.021	R_{c}	030329.79461	NE,NH	Uem423	
0.31185	14.27	0.014	R_{c}	030329.79604	NE,NH	Uem423	
0.31329	14.245	0.035	$R_{\rm C}$	030329.79748	NE,NH	Uem423	
0.31419	14.24	0.01	R_{c}	030329.79838	NE,NH	Uem423	
0.31619	14.265	0.049	R_{c}	030329.80038	NE,NH	Uem423	
0.31765	14.273	0.018	$R_{\rm C}$	030329.80184	NE,NH	Uem423	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.31911	14.285	0.007	$R_{\rm C}$	030329.8033	NE,NH	Uem423	
0.32108	14.3	0.01	$R_{\rm C}$	030329.80527	NE,NH	Uem423	
0.32207	14.285	0.049	$R_{\rm c}$	030329.80626	NE,NH	Uem423	
0.32355	14.295	0.064	$R_{\rm C}$	030329.80774	NE,NH	Uem423	
0.32505	14.31	0.028	$R_{\rm C}$	030329.80924	NE,NH	Uem423	
0.32655	14.32	0	$R_{\rm C}$	030329.81074	NE,NH	Uem423	
0.32805	14.3	0.037	$R_{\rm C}$	030329.81224	NE,NH	Uem423	
0.32957	14.315	0.035	$R_{\rm C}$	030329.81376	NE,NH	Uem423	
0.33109	14.32	0.028	$R_{\rm C}$	030329.81528	NE,NH	Uem423	
0.33262	14.35	0.014	$R_{\rm C}$	030329.81681	NE,NH	Uem423	
0.33415	14.333	0.011	$R_{\rm C}$	030329.81834	NE,NH	Uem423	
0.3357	14.35	0.028	$R_{\rm C}$	030329.81989	NE,NH	Uem423	
0.33697	14.33	0.01	$R_{\rm C}$	030329.82116	NE,NH	Uem423	
0.3388	14.305	0.007	$R_{\rm C}$	030329.82299	NE,NH	Uem423	
0.34037	14.32	0.019	$R_{\rm C}$	030329.82456	NE,NH	Uem423	
0.34352	14.383	0.032	$R_{\rm C}$	030329.82771	NE,NH	Uem423	
0.34482	14.4	0.01	$R_{\rm C}$	030329.82901	NE,NH	Uem423	
0.34669	14.415	0.035	$R_{\rm C}$	030329.83088	NE,NH	Uem423	
0.3483	14.38	0.007	$R_{\rm C}$	030329.83249	NE,NH	Uem423	
0.35032	14.44	0.01	$R_{\rm C}$	030329.83451	NE,NH	Uem423	
0.35152	14.4	0.057	$R_{\rm C}$	030329.83571	NE,NH	Uem423	
0.35314	14.403	0.022	$R_{\rm C}$	030329.83733	NE,NH	Uem423	
0.35477	14.425	0.007	$R_{\rm C}$	030329.83896	NE,NH	Uem423	
0.35641	14.41	0.014	$R_{\rm C}$	030329.8406	NE,NH	Uem423	
0.35805	14.44	0.014	$R_{\rm C}$	030329.84224	,	Uem423	
0.3597	14.47	0.028	$R_{\rm C}$	030329.84389		Uem423	
0.36137	14.46	0.021	$R_{\rm C}$	030329.84556	NE,NH	Uem423	
0.36303	14.455	0.021	$R_{\rm C}$	030329.84722	NE,NH	Uem423	
0.36468	14.496	0.1	$R_{\rm C}$	030329.84887	NE,NH	Pri2058	
0.36471	14.42	0.024	$R_{\rm C}$	030329.8489	NE,NH	Uem423	
0.36542	14.635	0.1	$R_{\rm C}$	030329.84961	NE,NH	Pri2058	
0.36639	14.475	0.007	$R_{\rm C}$	030329.85058	NE,NH	Uem423	
0.36691	14.57	0.1	$R_{\rm C}$	030329.8511	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.36767	14.584	0.1	$R_{\rm C}$	030329.85186	NE,NH	Pri2058	
0.36808	14.463	0.018	$R_{\rm C}$	030329.85227	NE,NH	Uem423	
0.36841	14.518	0.1	$R_{\rm C}$	030329.8526	NE,NH	Pri2058	
0.36916	14.536	0.1	$R_{\rm C}$	030329.85335	NE,NH	Pri2058	
0.36978	14.48	0.014	$R_{\rm C}$	030329.85397	NE,NH	Uem423	
0.37066	14.762	0.1	$R_{\rm C}$	030329.85485	NE,NH	Pri2058	
0.3714	14.57	0.1	$R_{\rm C}$	030329.85559	NE,NH	Pri2058	
0.37149	14.49	0.019	$R_{\rm C}$	030329.85568	NE,NH	Uem423	
0.37216	14.529	0.1	$R_{\rm C}$	030329.85635	NE,NH	Pri2058	
0.3729	14.543	0.1	$R_{\rm C}$	030329.85709	NE,NH	Pri2058	
0.37321	14.445	0.021	$R_{\rm C}$	030329.8574	NE,NH	Uem423	
0.37365	14.513	0.1	$R_{\rm C}$	030329.85784	NE,NH	Pri2058	
0.37439	14.472	0.1	$R_{\rm C}$	030329.85858	NE,NH	Pri2058	
0.37493	14.47	0.025	$R_{\rm C}$	030329.85912	NE,NH	Uem423	
0.37513	14.437	0.1	$R_{\rm C}$	030329.85932	NE,NH	Pri2058	
0.37589	14.854	0.1	$R_{\rm C}$	030329.86008	NE,NH	Pri2058	
0.37664	14.403	0.1	$R_{\rm C}$	030329.86083	NE,NH	Pri2058	
0.37666	14.485	0.035	$R_{\rm C}$	030329.86085	NE,NH	Uem423	
0.37739	14.648	0.1	$R_{\rm C}$	030329.86158	NE,NH	Pri2058	
0.37813	14.515	0.1	$R_{\rm C}$	030329.86232	NE,NH	Pri2058	
0.3784	14.5	0.014	$R_{\rm C}$	030329.86259	NE,NH	Uem423	
0.37888	14.489	0.1	$R_{\rm C}$	030329.86307	NE,NH	Pri2058	
0.38014	14.525	0.021	$R_{\rm C}$	030329.86433	NE,NH	Uem423	
0.3819	14.49	0.014	$R_{\rm C}$	030329.86609	NE,NH	Uem423	
0.3835	14.4893	0.05	$R_{\rm C}$	030329.86769	NE,NH	Res440	
0.38366	14.535	0.064	$R_{\rm C}$	030329.86785	NE,NH	Uem423	
0.38543	14.475	0.007	$R_{\rm C}$	030329.86962	NE,NH	Uem423	
0.38744	14.51	0.019	$R_{\rm C}$	030329.87163	NE,NH	Uem423	
0.389	14.513	0.025	$R_{\rm C}$	030329.87319	NE,NH	Uem423	
0.39019	14.51	0.014	$R_{\rm C}$	030329.87438	NE,NH	Uem423	
0.3926	14.495	0.007	$R_{\rm C}$	030329.87679	NE,NH	Uem423	
0.39441	14.545	0.035	$R_{\rm C}$	030329.8786	NE,NH	Uem423	
0.39775	14.56	0.009	$R_{\rm C}$	030329.88194	NE,NH	Uem423	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.4017	14.5483	0.046	$R_{\rm C}$	030329.88589	NE,NH	Res440	
0.40257	14.58	0.017	R_{c}	030329.88676	NE,NH	Uem423	
0.4036	14.555	0.064	$R_{\rm C}$	030329.88779	NE,NH	Uem423	
0.40725	14.776	0.1	$R_{\rm C}$	030329.89144	NE,NH	Pri2058	
0.4087	14.786	0.1	$R_{\rm C}$	030329.89289	NE,NH	Pri2058	
0.40956	14.61	0.01	$R_{\rm C}$	030329.89375	NE,NH	Uem423	
0.41014	14.769	0.1	$R_{\rm C}$	030329.89433	NE,NH	Pri2058	
0.4111	14.593	0.004	$R_{\rm C}$	030329.89529	NE,NH	Uem423	
0.41158	14.692	0.1	$R_{\rm C}$	030329.89577	NE,NH	Pri2058	
0.413	14.6	0.037	$R_{\rm C}$	030329.89719	NE,NH	Uem423	
0.41304	14.627	0.1	$R_{\rm C}$	030329.89723	NE,NH	Pri2058	
0.41447	14.705	0.1	$R_{\rm C}$	030329.89866	NE,NH	Pri2058	
0.4149	14.617	0.023	$R_{\rm C}$	030329.89909	NE,NH	Uem423	
0.41592	14.57	0.1	$R_{\rm C}$	030329.90011	NE,NH	Pri2058	
0.41642	14.57	0.011	$R_{\rm C}$	030329.90061	NE,NH	Uem423	
0.41735	14.656	0.1	$R_{\rm C}$	030329.90154	NE,NH	Pri2058	
0.41879	14.792	0.1	$R_{\rm C}$	030329.90298	NE,NH	Pri2058	
0.42023	14.632	0.1	$R_{\rm C}$	030329.90442	NE,NH	Pri2058	
0.42055	14.56	0.01	$R_{\rm C}$	030329.90474	NE,NH	Uem423	
0.42167	14.682	0.1	$R_{\rm C}$	030329.90586	NE,NH	Pri2058	
0.42262	14.675	0.021	$R_{\rm C}$	030329.90681	NE,NH	Uem423	
0.42313	14.718	0.1	$R_{\rm C}$	030329.90732	NE,NH	Pri2058	
0.4239	14.6333	0.032	$R_{\rm C}$	030329.90809	NE,NH	Res440	
0.42456	14.57	0.1	$R_{\rm C}$	030329.90875	NE,NH	Pri2058	
0.42457	14.627	0.025	$R_{\rm C}$	030329.90876	NE,NH	Uem423	
0.42601	14.548	0.1	$R_{\rm C}$	030329.9102	NE,NH	Pri2058	
0.42605	14.67	0.015	$R_{\rm C}$	030329.91024	NE,NH	Uem423	
0.42745	14.697	0.1	$R_{\rm C}$	030329.91164	NE,NH	Pri2058	
0.42888	14.667	0.1	$R_{\rm C}$	030329.91307	NE,NH	Pri2058	
0.43	14.6533	0.033	$R_{\rm C}$	030329.91419	NE,NH	Res440	
0.43033	14.771	0.1	$R_{\rm C}$	030329.91452	NE,NH	Pri2058	
0.43047	14.61	0.014	$R_{\rm C}$	030329.91466	NE,NH	Uem423	
0.43176	14.771	0.1	$R_{\rm C}$	030329.91595	NE,NH	Pri2058	

Table 47—Continued

$\frac{}{dt}$	mag	error	band	date	corrections	reference	remark
			Sana				
0.43291	14.68	0.009	$R_{\rm C}$	030329.9171	NE,NH	Uem423	
0.43321	14.742	0.1	$R_{\rm C}$	030329.9174	NE,NH	Pri2058	
0.43464	14.844	0.1	$R_{\rm C}$	030329.91883	NE,NH	Pri2058	
0.43609	14.698	0.1	$R_{\rm C}$	030329.92028	NE,NH	Pri2058	
0.4361	14.6613	0.04	$R_{\rm C}$	030329.92029	NE,NH	Res440	
0.43754	14.743	0.1	$R_{\rm C}$	030329.92173	NE,NH	Pri2058	
0.43848	14.725	0.078	$R_{\rm C}$	030329.92267	NE,NH	Uem423	
0.43897	14.788	0.1	$R_{\rm C}$	030329.92316	NE,NH	Pri2058	
0.44042	14.737	0.1	$R_{\rm C}$	030329.92461	NE,NH	Pri2058	
0.4405	14.683	0.045	$R_{\rm C}$	030329.92469	NE,NH	Uem423	
0.44186	14.757	0.1	$R_{\rm C}$	030329.92605	NE,NH	Pri2058	
0.44253	14.695	0.007	$R_{\rm C}$	030329.92672	NE,NH	Uem423	
0.44331	14.723	0.1	$R_{\rm C}$	030329.9275	NE,NH	Pri2058	
0.4435	14.6753	0.07	$R_{\rm C}$	030329.92769	NE,NH	Res440	
0.44392	14.67	0.009	$R_{\rm C}$	030329.92811	NE,NH	Uem423	
0.44475	14.748	0.1	$R_{\rm C}$	030329.92894	NE,NH	Pri2058	
0.4462	14.798	0.1	$R_{\rm C}$	030329.93039	NE,NH	Pri2058	
0.44736	14.62	0.013	$R_{\rm C}$	030329.93155	NE,NH	Uem423	
0.44763	14.786	0.1	$R_{\rm C}$	030329.93182	NE,NH	Pri2058	
0.44869	14.68	0.028	$R_{\rm C}$	030329.93288	NE,NH	Uem423	
0.45051	14.842	0.1	$R_{\rm C}$	030329.9347	NE,NH	Pri2058	
0.45076	14.737	0.018	$R_{\rm C}$	030329.93495	NE,NH	Uem423	
0.45195	14.752	0.1	$R_{\rm C}$	030329.93614	NE,NH	Pri2058	
0.45284	14.7	0.037	$R_{\rm C}$	030329.93703		Uem423	
0.45493	14.757	0.036	$R_{\rm C}$	030329.93912	NE,NH	Uem423	
0.45703	14.743	0.004	$R_{\rm C}$	030329.94122	NE,NH	Uem423	
0.45914	14.74	0.007	$R_{\rm C}$	030329.94333	NE,NH	Uem423	
0.46126	14.737	0.011	$R_{\rm C}$	030329.94545	NE,NH	Uem423	
0.46339	14.75	0.014	$R_{\rm C}$	030329.94758	NE,NH	Uem423	
0.46553	14.755	0.022	$R_{\rm C}$	030329.94972	NE,NH	Uem423	
0.46768	14.72	0.028	$R_{\rm C}$	030329.95187	NE,NH	Uem423	
0.46984	14.743	0.023	$R_{\rm C}$	030329.95403	NE,NH	Uem423	
0.47201	14.82	0.014	$R_{\rm C}$	030329.9562	NE,NH	Uem423	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.47418	14.787	0.036	$R_{\scriptscriptstyle C}$	030329.95837	NE,NH	Uem423	
0.47637	14.76	0.046	$R_{\rm C}$	030329.96056	NE,NH	Uem423	
0.47857	14.822	0.032	$R_{\rm C}$	030329.96276	NE,NH	Uem423	
0.48078	14.805	0.078	$R_{\rm C}$	030329.96497	NE,NH	Uem423	
0.483	14.82	0.014	$R_{\rm C}$	030329.96719	NE,NH	Uem423	
0.48523	14.81	0.028	$R_{\rm C}$	030329.96942	NE,NH	Uem423	
0.48747	14.825	0.078	$R_{\rm C}$	030329.97166	NE,NH	Uem423	
0.48972	14.837	0.025	$R_{\rm C}$	030329.97391	NE,NH	Uem423	
0.49198	14.81	0.024	$R_{\rm C}$	030329.97617	NE,NH	Uem423	
0.49425	14.887	0.029	$R_{\rm C}$	030329.97844	NE,NH	Uem423	
0.49653	14.847	0.055	$R_{\rm C}$	030329.98072	NE,NH	Uem423	
0.49882	14.838	0.007	$R_{\rm C}$	030329.98301	NE,NH	Uem423	
0.60256	15.228	0.1	$R_{\rm C}$	030330.08675	NE,NH	Pri2058	
0.62208	15.298	0.1	$R_{\rm C}$	030330.10627	NE,NH	Pri2058	
0.64161	15.347	0.1	$R_{\rm C}$	030330.1258	NE,NH	Pri2058	
0.66114	15.423	0.1	$R_{\rm C}$	030330.14533	NE,NH	Pri2058	
0.68066	15.51	0.1	$R_{\rm C}$	030330.16485	NE,NH	Pri2058	
0.7002	15.525	0.1	$R_{\rm C}$	030330.18439	NE,NH	Pri2058	
0.71971	15.584	0.1	$R_{\rm C}$	030330.2039	NE,NH	Pri2058	
0.73925	15.626	0.1	$R_{\rm C}$	030330.22344	NE,NH	Pri2058	
0.76532	15.725	0.1	$R_{\rm C}$	030330.24951	NE,NH	Pri2058	
0.78485	15.752	0.1	$R_{\rm C}$	030330.26904	NE,NH	Pri2058	
0.80439	15.805	0.1	$R_{\rm C}$	030330.28858	NE,NH	Pri2058	
0.933101	15.960624	0.121788	$R_{\rm C}$	030330.4173	NE,NH	Sat599	
0.940473	15.846972	0.09952	$R_{\rm C}$	030330.42467	NE,NH	Sat599	
0.95679	16.033761	0.090952	$R_{\rm C}$	030330.44098	NE,NH	Sat599	
0.972465	16.091394	0.099519	$R_{\rm C}$	030330.45666	NE,NH	Sat599	
0.97426	16.043	0.01	$R_{\rm C}$	030330.45845	NE,NH	Uem423	
0.97876	16.063	0.012	$R_{\rm C}$	030330.46295	NE,NH	Uem423	
0.980057	16.077688	0.098779	$R_{\rm C}$	030330.46425	NE,NH	Sat599	
0.98327	16.059	0.015	$R_{\rm C}$	030330.46746	NE,NH	Uem423	
0.98781	16.067	0.016	$R_{\rm C}$	030330.472	NE,NH	Uem423	
0.99237	16.037	0.015	$R_{\rm C}$	030330.47656	NE,NH	Uem423	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.99695	16.066	0.008	$R_{\rm C}$	030330.48114	NE,NH	Uem423	
1.00155	16.087	0.006	$R_{\rm C}$	030330.48574	NE,NH	Uem423	
1.005523	16.057059	0.082041	$R_{\rm C}$	030330.48972	NE,NH	Sat599	
1.00618	16.112	0.017	$R_{\rm C}$	030330.49037	NE,NH	Uem423	
1.02017	16.093	0.01	$R_{\rm C}$	030330.50436	NE,NH	Uem423	
1.024647	16.255691	0.09514	$R_{\rm C}$	030330.50884	NE,NH	Sat599	
1.02488	16.113	0.009	$R_{\rm C}$	030330.50907	NE,NH	Uem423	
1.02961	16.108	0.009	$R_{\rm C}$	030330.5138	NE,NH	Uem423	
1.03232	16.17445	0.09302	$R_{\rm C}$	030330.51651	NE,NH	Sat599	
1.03436	16.143	0.009	$R_{\rm C}$	030330.51855	NE,NH	Uem423	
1.03914	16.147	0.011	$R_{\rm C}$	030330.52333	NE,NH	Uem423	
1.04394	16.201	0.007	$R_{\rm C}$	030330.52813	NE,NH	Uem423	
1.04876	16.102	0.007	$R_{\rm C}$	030330.53295	NE,NH	Uem423	
1.055013	16.283809	0.080893	$R_{\rm C}$	030330.53921	NE,NH	Sat599	
1.06334	16.191	0.002	$R_{\rm C}$	030330.54753	NE,NH	Uem423	
1.06825	16.178	0.012	$R_{\rm C}$	030330.55244	NE,NH	Uem423	
1.07318	16.183	0.012	$R_{\rm C}$	030330.55737	NE,NH	Uem423	
1.07814	16.188	0.009	$R_{\rm C}$	030330.56233	NE,NH	Uem423	
1.08311	16.192	0.006	$R_{\rm C}$	030330.5673	NE,NH	Uem423	
1.084258	16.424117	0.085068	$R_{\rm C}$	030330.56845	NE,NH	Sat599	
1.08811	16.208	0.009	$R_{\rm C}$	030330.5723	NE,NH	Uem423	
1.09314	16.121	0.032	$R_{\rm C}$	030330.57733	NE,NH	Uem423	
1.09593	16.078	0.018	$R_{\rm C}$	030330.58012	NE,NH	Uem423	
1.0993	16.249	0.07	$R_{\rm C}$	030330.58349	NE,NH	Res440	
1.10325	16.221	0.014	$R_{\rm C}$	030330.58744	NE,NH	Uem423	
1.1035	16.295	0.056	$R_{\rm C}$	030330.58769	NE,NH	Res440	
1.104996	16.323709	0.080893	$R_{\rm C}$	030330.58919	NE,NH	Sat599	
1.10834	16.195	0.005	$R_{\rm C}$	030330.59253	NE,NH	Uem423	
1.11346	16.221	0.023	$R_{\rm C}$	030330.59765	NE,NH	Uem423	
1.1186	16.247	0.019	$R_{\rm C}$	030330.60279	NE,NH	Uem423	
1.12376	16.218	0.005	$R_{\scriptscriptstyle \rm C}$	030330.60795	NE,NH	Uem423	
1.12895	16.222	0.013	$R_{\rm C}$	030330.61314	NE,NH	Uem423	
1.13416	16.234	0.005	$R_{\rm C}$	030330.61835	NE,NH	Uem423	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
1.13939	16.259	0.013	$R_{\rm C}$	030330.62358	NE,NH	Uem423	
1.14465	16.231	0.01	$R_{\rm c}$	030330.62884	NE,NH	Uem423	
1.14994	16.287	0.027	$R_{\rm c}$	030330.63413	NE,NH	Uem423	
1.15525	16.263	0.011	$R_{\rm c}$	030330.63944	NE,NH	Uem423	
1.16058	16.279	0.008	$R_{\rm C}$	030330.64477	NE,NH	Uem423	
1.16593	16.267	0.004	$R_{\rm C}$	030330.65012	NE,NH	Uem423	
1.1678	16.2963	0.07	$R_{\rm C}$	030330.65199	NE,NH	Res440	
1.17132	16.287	0.013	$R_{\rm C}$	030330.65551	NE,NH	Uem423	
1.1746	16.3343	0.042	$R_{\rm C}$	030330.65879	NE,NH	Res440	
1.17672	16.275	0.005	$R_{\rm C}$	030330.66091	NE,NH	Uem423	
1.18215	16.274	0.009	$R_{\rm C}$	030330.66634	NE,NH	Uem423	
1.18761	16.277	0.011	$R_{\rm C}$	030330.6718	NE,NH	Uem423	
1.1907	16.3533	0.039	$R_{\rm C}$	030330.67489	NE,NH	Res440	
1.19309	16.298	0.013	$R_{\rm C}$	030330.67728	NE,NH	Uem423	
1.1986	16.285	0.014	$R_{\rm C}$	030330.68279	NE,NH	Uem423	
1.2039	16.3733	0.028	$R_{\rm C}$	030330.68809	NE,NH	Res440	
1.20413	16.311	0.015	$R_{\rm C}$	030330.68832	NE,NH	Uem423	
1.207246	16.444423	0.101016	$R_{\rm C}$	030330.69144	NE,NH	Sat599	
1.20969	16.314	0.016	$R_{\rm C}$	030330.69388	NE,NH	Uem423	
1.22878	16.333	0.018	$R_{\rm C}$	030330.71297	NE,NH	Uem423	
1.23218	16.346	0.019	$R_{\rm C}$	030330.71637	NE,NH	Uem423	
1.23787	16.33	0.008	$R_{\rm C}$	030330.72206	NE,NH	Uem423	
1.2428	16.3723	0.049	$R_{\rm C}$	030330.72699	NE,NH	Res440	
1.24358	16.339	0.012	$R_{\rm C}$	030330.72777	NE,NH	Uem423	
1.24932	16.337	0.013	$R_{\rm C}$	030330.73351	NE,NH	Uem423	
1.25509	16.386	0.034	$R_{\rm C}$	030330.73928	NE,NH	Uem423	
1.26088	16.34	0.016	$R_{\rm C}$	030330.74507	NE,NH	Uem423	
1.2667	16.378	0.04	$R_{\rm C}$	030330.75089	NE,NH	Uem423	
1.27255	16.357	0.017	$R_{\rm C}$	030330.75674	NE,NH	Uem423	
1.27842	16.44	0.023	$R_{\rm C}$	030330.76261	NE,NH	Uem423	
1.2797	16.4133	0.04	$R_{\rm C}$	030330.76389	NE,NH	Res440	
1.2825	16.42	0.021	$R_{\rm C}$	030330.76669	NE,NH	Res440	
1.28432	16.426	0.032	$R_{\rm C}$	030330.76851	NE,NH	Uem423	

Table 47—Continued

$\frac{}{dt}$	mag	error	band	date	corrections	reference	remark
	11145	01101	Dana	- Gaile		1010101100	TOITIOIX
1.29025	16.434	0.029	$R_{\rm C}$	030330.77444	NE,NH	Uem423	
1.29621	16.38	0.042	$R_{\rm C}$	030330.7804	NE,NH	Uem423	
1.3001	16.438	0.018	$R_{\rm C}$	030330.78429	NE,NH	Res440	
1.30219	16.372	0.033	$R_{\rm C}$	030330.78638	NE,NH	Uem423	
1.3082	16.39	0.035	$R_{\rm C}$	030330.79239	NE,NH	Uem423	
1.3131	16.4223	0.05	$R_{\rm C}$	030330.79729	NE,NH	Res440	
1.31424	16.345	0.033	$R_{\rm C}$	030330.79843	NE,NH	Uem423	
1.3172	16.439	0.018	$R_{\rm C}$	030330.80139	NE,NH	Res440	
1.3203	16.35	0.034	$R_{\rm C}$	030330.80449	NE,NH	Uem423	
1.3264	16.429	0.033	$R_{\rm C}$	030330.81059	NE,NH	Uem423	
1.33252	16.375	0.056	$R_{\rm C}$	030330.81671	NE,NH	Uem423	
1.3336	16.4453	0.041	$R_{\rm C}$	030330.81779	NE,NH	Res440	
1.33867	16.416	0.06	$R_{\rm C}$	030330.82286	NE,NH	Uem423	
1.3398	16.46	0.017	$R_{\rm C}$	030330.82399	NE,NH	Res440	
1.34485	16.478	0.045	$R_{\rm C}$	030330.82904	NE,NH	Uem423	
1.35106	16.437	0.062	$R_{\rm C}$	030330.83525	NE,NH	Uem423	
1.35729	16.412	0.056	$R_{\rm C}$	030330.84148	NE,NH	Uem423	
1.3617	16.4593	0.039	$R_{\rm C}$	030330.84589	NE,NH	Res440	
1.36356	16.469	0.039	$R_{\rm C}$	030330.84775	NE,NH	Uem423	
1.36985	16.439	0.049	$R_{\rm C}$	030330.85404	NE,NH	Uem423	
1.37618	16.436	0.032	$R_{\rm C}$	030330.86037	NE,NH	Uem423	
1.3763	16.4683	0.034	$R_{\rm C}$	030330.86049	NE,NH	Res440	
1.38253	16.367	0.026	$R_{\rm C}$	030330.86672	NE,NH	Uem423	
1.38891	16.462	0.04	$R_{\rm C}$	030330.8731	NE,NH	Uem423	
1.3919	16.4623	0.032	$R_{\rm C}$	030330.87609	NE,NH	Res440	
1.39532	16.406	0.048	$R_{\rm C}$	030330.87951	NE,NH	Uem423	
1.40176	16.469	0.052	$R_{\rm C}$	030330.88595	NE,NH	Uem423	
1.4074	16.4613	0.039	$R_{\rm C}$	030330.89159	NE,NH	Res440	
1.40823	16.429	0.032	$R_{\rm C}$	030330.89242	NE,NH	Uem423	
1.41473	16.451	0.032	$R_{\rm C}$	030330.89892	NE,NH	Uem423	
1.42126	16.392	0.027	$R_{\rm C}$	030330.90545	NE,NH	Uem423	
1.4236	16.4353	0.057	$R_{\rm C}$	030330.90779	NE,NH	Res440	
1.42782	16.429	0.049	$R_{\rm C}$	030330.91201	NE,NH	Uem423	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
1.4302	16.4703	0.034	$R_{\rm C}$	030330.91439	NE,NH	Res440	
1.43441	16.535	0.048	$R_{\rm C}$	030330.9186	NE,NH	Uem423	
1.4372	16.4303	0.031	$R_{\rm C}$	030330.92139	NE,NH	Res440	
1.44103	16.394	0.045	$R_{\rm C}$	030330.92522	NE,NH	Uem423	
1.4436	16.4013	0.063	$R_{\rm C}$	030330.92779	NE,NH	Res440	
1.44769	16.36	0.055	$R_{\rm C}$	030330.93188	NE,NH	Uem423	
1.45437	16.369	0.041	$R_{\rm C}$	030330.93856	NE,NH	Uem423	
1.46108	16.346	0.048	$R_{\rm C}$	030330.94527	NE,NH	Uem423	
1.46782	16.292	0.045	$R_{\rm C}$	030330.95201	NE,NH	Uem423	
1.4746	16.313	0.07	$R_{\rm C}$	030330.95879	NE,NH	Uem423	
1.48141	16.304	0.034	$R_{\rm C}$	030330.9656	NE,NH	Uem423	
1.48824	16.382	0.068	$R_{\rm C}$	030330.97243	NE,NH	Uem423	
1.49511	16.317	0.057	$R_{\rm C}$	030330.9793	NE,NH	Uem423	
1.50201	16.27	0.068	$R_{\rm C}$	030330.9862	NE,NH	Uem423	
1.50895	16.525	0.092	$R_{\rm C}$	030330.99314	NE,NH	Uem423	
2.033092	16.511588	0.10795	$R_{\rm C}$	030331.51729	NE,NH	Sat599	
2.041372	16.50778	0.114356	$R_{\rm C}$	030331.52557	NE,NH	Sat599	
2.075297	16.589747	0.085064	$R_{\rm C}$	030331.55949	NE,NH	Sat599	
2.1609	16.7163	0.04	$R_{\rm C}$	030331.64509	NE,NH	Res440	
2.177	16.7163	0.031	$R_{\rm C}$	030331.66119	NE,NH	Res440	
2.1813	16.711	0.032	$R_{\rm C}$	030331.66549	NE,NH	Res440	
2.1964	16.7103	0.041	$R_{\rm C}$	030331.68059	NE,NH	Res440	
2.2058	16.744	0.033	$R_{\rm C}$	030331.68999	NE,NH	Res440	
2.2243	16.771	0.031	$R_{\rm C}$	030331.70849	NE,NH	Res440	
2.2308	16.783	0.027	$R_{\rm C}$	030331.71499	NE,NH	Res440	
2.2391	16.7823	0.026	$R_{\rm C}$	030331.72329	NE,NH	Res440	
2.2463	16.772	0.027	$R_{\rm C}$	030331.73049	NE,NH	Res440	
2.266	16.779	0.026	$R_{\rm C}$	030331.75019	NE,NH	Res440	
2.2667	16.7953	0.04	$R_{\rm C}$	030331.75089	NE,NH	Res440	
2.2815	16.7933	0.035	$R_{\rm C}$	030331.76569	NE,NH	Res440	
2.2842	16.788	0.029	$R_{\rm C}$	030331.76839	NE,NH	Res440	
2.2986	16.7953	0.043	$R_{\rm C}$	030331.78279	NE,NH	Res440	
2.3013	16.798	0.029	$R_{\rm C}$	030331.78549	NE,NH	Res440	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
2.3103	16.8203	0.025	$R_{\rm C}$	030331.79449	NE,NH	Res440	
2.3139	16.714	0.051	$R_{\rm c}$	030331.79809	NE,NH	Pri2058	
2.3169	16.774	0.064	$R_{\rm c}$	030331.80109	NE,NH	Pri2058	
2.3199	16.698	0.052	$R_{\rm c}$	030331.80409	NE,NH	Pri2058	
2.3214	16.82	0.025	$R_{\rm C}$	030331.80559	NE,NH	Res440	
2.3229	16.814	0.051	$R_{\rm C}$	030331.80709	NE,NH	Pri2058	
2.326	16.674	0.043	$R_{\rm C}$	030331.81019	NE,NH	Pri2058	
2.329	16.787	0.047	$R_{\rm C}$	030331.81319	NE,NH	Pri2058	
2.3299	16.8083	0.034	$R_{\rm C}$	030331.81409	NE,NH	Res440	
2.3319	16.766	0.045	$R_{\rm C}$	030331.81609	NE,NH	Pri2058	
2.3349	16.793	0.047	$R_{\rm C}$	030331.81909	NE,NH	Pri2058	
2.3383	16.811	0.047	$R_{\rm C}$	030331.82249	NE,NH	Pri2058	
2.3424	16.8443	0.043	$R_{\rm C}$	030331.82659	NE,NH	Res440	
2.344	16.844	0.024	$R_{\rm c}$	030331.82819	NE,NH	Res440	
2.3444	16.89	0.048	$R_{\rm C}$	030331.82859	NE,NH	Pri2058	
2.3505	16.811	0.046	$R_{\rm c}$	030331.83469	NE,NH	Pri2058	
2.3591	16.8503	0.04	$R_{\rm c}$	030331.84329	NE,NH	Res440	
2.3624	16.974	0.052	$R_{\rm c}$	030331.84659	NE,NH	Pri2058	
2.3655	16.867	0.024	$R_{\rm C}$	030331.84969	NE,NH	Res440	
2.3686	16.775	0.046	$R_{\rm C}$	030331.85279	NE,NH	Pri2058	
2.3705	16.8583	0.048	$R_{\rm C}$	030331.85469	NE,NH	Res440	
2.37136	16.895	0.029	$R_{\rm C}$	030331.85555	NE,NH	Uem423	
2.3747	16.87	0.053	$R_{\rm c}$	030331.85889	NE,NH	Pri2058	
2.3808	16.874	0.058	$R_{\rm C}$	030331.86499	NE,NH	Pri2058	
2.3865	16.874	0.024	$R_{\rm C}$	030331.87069	NE,NH	Res440	
2.3869	16.809	0.054	$R_{\rm C}$	030331.87109	NE,NH	Pri2058	
2.3873	16.8573	0.044	$R_{\rm C}$	030331.87149	NE,NH	Res440	
2.3931	16.827	0.053	$R_{\rm C}$	030331.87729	NE,NH	Pri2058	
2.3933	16.88	0.03	$R_{\rm C}$	030331.87749	NE,NH	Uem423	
2.3975	16.859	0.053	$R_{\rm C}$	030331.88169	NE,NH	Pri2058	
2.3992	16.8683	0.045	$R_{\rm C}$	030331.88339	NE,NH	Res440	
2.4036	16.797	0.049	$R_{\rm C}$	030331.88779	NE,NH	Pri2058	
2.4072	16.9	0.023	$R_{\rm C}$	030331.89139	NE,NH	Res440	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
2.4098	16.805	0.046	$R_{\rm C}$	030331.89399	NE,NH	Pri2058	
2.41544	16.925	0.035	R_{c}	030331.89963		Uem423	
2.4159	16.879	0.05	R_{c}	030331.90009	NE,NH	Pri2058	
2.4159	16.8723	0.059	$R_{\rm C}$	030331.90009	NE,NH	Res440	
2.422	16.841	0.047	$R_{\rm C}$	030331.90619	NE,NH	Pri2058	
2.4271	16.9013	0.037	$R_{\rm c}$	030331.91129	NE,NH	Res440	
2.4281	16.816	0.044	$R_{\rm c}$	030331.91229	NE,NH	Pri2058	
2.4343	16.833	0.047	$R_{\rm C}$	030331.91849	NE,NH	Pri2058	
2.43779	16.97	0.047	$R_{\rm C}$	030331.92198	NE,NH	Uem423	
2.4383	16.9163	0.028	$R_{\rm C}$	030331.92249	NE,NH	Res440	
2.4404	16.859	0.047	$R_{\rm C}$	030331.92459	NE,NH	Pri2058	
2.4465	16.817	0.047	$R_{\rm C}$	030331.93069	NE,NH	Pri2058	
2.4527	16.863	0.048	$R_{\rm C}$	030331.93689	NE,NH	Pri2058	
2.4588	16.844	0.047	$R_{\rm c}$	030331.94299	NE,NH	Pri2058	
2.4649	16.848	0.051	$R_{\rm C}$	030331.94909	NE,NH	Pri2058	
2.4711	16.94	0.05	$R_{\rm c}$	030331.95529	NE,NH	Pri2058	
2.4772	16.889	0.052	$R_{\rm C}$	030331.96139	NE,NH	Pri2058	
2.4833	16.962	0.054	$R_{\rm C}$	030331.96749	NE,NH	Pri2058	
2.4894	16.983	0.056	$R_{\rm C}$	030331.97359	NE,NH	Pri2058	
2.4956	16.893	0.052	$R_{\rm C}$	030331.97979	NE,NH	Pri2058	
2.5017	16.877	0.053	$R_{\rm C}$	030331.98589	NE,NH	Pri2058	
2.5078	16.865	0.056	$R_{\rm C}$	030331.99199	NE,NH	Pri2058	
2.5139	17.072	0.061	$R_{\rm C}$	030331.99809	NE,NH	Pri2058	
2.52	16.845	0.049	$R_{\rm C}$	030401.00419	,	Pri2058	
2.5262	16.909	0.052	$R_{\rm C}$	030401.01039	NE,NH	Pri2058	
2.5323	16.807	0.052	$R_{\rm C}$	030401.01649	NE,NH	Pri2058	
2.5385	16.908	0.06	$R_{\scriptscriptstyle C}$	030401.02269	NE,NH	Pri2058	
2.5447	16.875	0.057	$R_{\rm C}$	030401.02889	NE,NH	Pri2058	
2.5508	16.825	0.054	$R_{\scriptscriptstyle C}$	030401.03499	NE,NH	Pri2058	
2.5569	16.842	0.06	$R_{\rm C}$	030401.04109	NE,NH	Pri2058	
3.1168	17.071	0.027	$R_{\rm C}$	030401.60099	NE,NH	Res440	
3.1397	17.045	0.025	$R_{\rm C}$	030401.62389	NE,NH	Res440	
3.1729	17.059	0.025	$R_{\rm C}$	030401.65709	NE,NH	Res440	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
3.1854	17.0553	0.046	$R_{\rm C}$	030401.66959	NE,NH	Res440	
3.1926	17.075	0.026	$R_{\rm c}$	030401.67679	NE,NH	Res440	
3.1981	17.0453	0.045	$R_{\rm C}$	030401.68229	NE,NH	Res440	
3.211	17.079	0.026	$R_{\rm C}$	030401.69519	NE,NH	Res440	
3.2434	17.0473	0.037	$R_{\rm C}$	030401.72759	NE,NH	Res440	
3.2605	17.0583	0.032	$R_{\rm C}$	030401.74469	NE,NH	Res440	
3.2647	17.075	0.029	$R_{\rm C}$	030401.74889	NE,NH	Res440	
3.2691	17.071	0.026	$R_{\rm C}$	030401.75329	NE,NH	Res440	
3.3788	17.058	0.023	$R_{\rm C}$	030401.86299	NE,NH	Res440	
3.4051	17.039	0.024	$R_{\rm C}$	030401.88929	NE,NH	Res440	
3.4066	17.0273	0.035	$R_{\rm C}$	030401.89079	NE,NH	Res440	
3.4263	17.101	0.028	$R_{\rm C}$	030401.91049	NE,NH	Res440	
4.1318	17.6723	0.046	$R_{\rm C}$	030402.61599	NE,NH	Res440	
4.1551	17.694	0.028	$R_{\rm C}$	030402.63929	NE,NH	Res440	
4.1585	17.6933	0.029	$R_{\rm C}$	030402.64269	NE,NH	Res440	
4.1691	17.7113	0.029	$R_{\rm C}$	030402.65329	NE,NH	Res440	
4.1713	17.707	0.025	$R_{\rm C}$	030402.65549	NE,NH	Res440	
4.1857	17.68	0.027	$R_{\rm C}$	030402.66989	NE,NH	Res440	
4.2003	17.7193	0.033	$R_{\rm C}$	030402.68449	NE,NH	Res440	
4.2113	17.689	0.028	$R_{\rm C}$	030402.69549	NE,NH	Res440	
4.2122	17.7023	0.033	$R_{\rm C}$	030402.69639	NE,NH	Res440	
4.2284	17.706	0.034	$R_{\rm C}$	030402.71259	NE,NH	Res440	
4.2425	17.709	0.03	$R_{\rm C}$	030402.72669	NE,NH	Res440	
4.2644	17.721	0.03	$R_{\rm C}$	030402.74859	NE,NH	Res440	
4.2775	17.737	0.03	$R_{\rm C}$	030402.76169	NE,NH	Res440	
4.2912	17.718	0.032	$R_{\rm C}$	030402.77539	NE,NH	Res440	
4.403	17.66	0.09	$R_{\rm C}$	030402.88719	NE,NH	Sem 2111	
5.10371	17.677	0.383	$R_{\rm C}$	030403.5879	NE,NH	Uem423	
5.357	17.73	0.11	$R_{\rm C}$	030403.84119	NE,NH	Sem 2111	
6.1991	18.03	0.031	$R_{\rm C}$	030404.68329	NE,NH	Res440	
6.2285	18.085	0.035	$R_{\rm C}$	030404.71269	NE,NH	Res440	
6.2517	18.13	0.031	$R_{\rm C}$	030404.73589	NE,NH	Res440	
6.328	18.11	0.18	$R_{\rm C}$	030404.81219	NE,NH	Sem 2111	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
7.1079	18.4583	0.049	$R_{\rm C}$	030405.59209	NE,NH	Res440	
7.1204	18.5093	0.028	$R_{\rm C}$	030405.60459	NE,NH	Res440	
7.1369	18.5033	0.025	$R_{\rm C}$	030405.62109	NE,NH	Res440	
7.15	18.4963	0.032	$R_{\rm C}$	030405.63419	NE,NH	Res440	
7.1763	18.4803	0.036	$R_{\rm C}$	030405.66049	NE,NH	Res440	
7.2018	18.5763	0.029	$R_{\rm C}$	030405.68599	NE,NH	Res440	
7.2214	18.5873	0.024	$R_{\rm C}$	030405.70559	NE,NH	Res440	
7.2391	18.5243	0.029	$R_{\rm C}$	030405.72329	NE,NH	Res440	
7.25704	18.851	0.337	$R_{\rm C}$	030405.74123	NE,NH	Uem423	
7.2667	18.5683	0.027	$R_{\rm C}$	030405.75089	NE,NH	Res440	
7.295	18.5873	0.027	$R_{\rm C}$	030405.77919	NE,NH	Res440	
7.3109	18.5803	0.036	$R_{\rm C}$	030405.79509	NE,NH	Res440	
7.329	18.6003	0.027	$R_{\rm C}$	030405.81319	NE,NH	Res440	
7.3614	18.5893	0.035	$R_{\rm C}$	030405.84559	NE,NH	Res440	
7.3864	18.6283	0.037	$R_{\rm C}$	030405.87059	NE,NH	Res440	
7.415	18.59	0.04	$R_{\rm C}$	030405.89919	NE,NH	Pri2058	
7.4162	18.6643	0.049	$R_{\rm C}$	030405.90039	NE,NH	Res440	
8.1079	18.8233	0.039	$R_{\rm C}$	030406.59209	NE,NH	Res440	
8.1155	18.8373	0.029	$R_{\rm C}$	030406.59969	NE,NH	Res440	
8.1394	18.8053	0.036	$R_{\rm C}$	030406.62359	NE,NH	Res440	
8.17883	18.66	0.129	$R_{\rm C}$	030406.66302	NE,NH	Uem423	
8.2009	18.8453	0.025	$R_{\rm C}$	030406.68509	NE,NH	Res440	
8.2092	18.8503	0.03	$R_{\rm C}$	030406.69339	NE,NH	Res440	
8.2487	18.8503	0.032	$R_{\rm C}$	030406.73289	NE,NH	Res440	
8.2573	18.8443	0.022	$R_{\rm C}$	030406.74149	NE,NH	Res440	
8.2952	18.8363	0.029	$R_{\rm C}$	030406.77939	NE,NH	Res440	
8.3038	18.8433	0.034	$R_{\rm C}$	030406.78799	NE,NH	Res440	
8.3365	18.8523	0.029	$R_{\rm C}$	030406.82069	NE,NH	Res440	
8.3446	18.8473	0.047	$R_{\rm C}$	030406.82879	NE,NH	Res440	
8.4011	18.8823	0.043	$R_{\rm C}$	030406.88529	NE,NH	Res440	
8.4095	18.8773	0.038	$R_{\rm C}$	030406.89369	NE,NH	Res440	
8.4176	18.8183	0.031	$R_{\rm C}$	030406.90179	NE,NH	Res440	
9.1096	18.897	0.052	$R_{\rm C}$	030407.59379	NE,NH	Res440	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
9.114	18.945	0.067	$R_{\rm C}$	030407.59819	NE,NH	Res440	
10.123	19.017	0.046	$R_{\rm C}$	030408.60719	NE,NH	Res440	
10.1643	19.049	0.041	$R_{\rm C}$	030408.64849	NE,NH	Res440	
10.1938	19.064	0.032	$R_{\rm C}$	030408.67799	NE,NH	Res440	
11.105	19.078	0.057	$R_{\rm C}$	030409.58919	NE,NH	Res440	
11.1065	19.1263	0.033	$R_{\rm C}$	030409.59069	NE,NH	Res440	
11.1481	19.0963	0.037	$R_{\rm C}$	030409.63229	NE,NH	Res440	
11.2035	19.1403	0.037	$R_{\rm C}$	030409.68769	NE,NH	Res440	
11.2402	19.1743	0.039	$R_{\rm C}$	030409.72439	NE,NH	Res440	
11.3662	19.1663	0.05	$R_{\rm C}$	030409.85039	NE,NH	Res440	
11.4495	19.17	0.07	$R_{\rm C}$	030409.93369	NE,NH	Pri2058	
12.1228	19.3113	0.03	$R_{\rm C}$	030410.60699	NE,NH	Res440	
12.1317	19.44	0.095	$R_{\rm C}$	030410.61589	NE,NH	Res440	
12.1597	19.2923	0.052	$R_{\rm C}$	030410.64389	NE,NH	Res440	
12.1643	19.294	0.057	$R_{\rm C}$	030410.64849	NE,NH	Res440	
12.1985	19.2553	0.05	$R_{\rm C}$	030410.68269	NE,NH	Res440	
12.2432	19.3483	0.039	$R_{\rm C}$	030410.72739	NE,NH	Res440	
12.255	19.3503	0.041	$R_{\rm C}$	030410.73919	NE,NH	Res440	
12.2734	19.3283	0.049	$R_{\rm C}$	030410.75759	NE,NH	Res440	
12.3849	19.3463	0.06	$R_{\rm C}$	030410.86909	NE,NH	Res440	
13.1903	19.4273	0.038	$R_{\rm C}$	030411.67449	NE,NH	Res440	
13.2224	19.527	0.154	$R_{\rm C}$	030411.70659	NE,NH	Res440	
13.2242	19.2813	0.053	$R_{\rm C}$	030411.70839	NE,NH	Res440	
15.3982	19.53	0.2	$R_{\rm C}$	030413.88239	NE,NH	Piz2228	
16.4083	20.27	0.33	$R_{\rm C}$	030414.89249	NE,NH	Piz2228	
24.1188	20.1233	0.043	$R_{\rm C}$	030422.60299	NE,NH	Res440	
24.1439	20.0573	0.04	$R_{\rm C}$	030422.62809	NE,NH	Res440	
24.3193	20.0633	0.025	$R_{\rm C}$	030422.80349	NE,NH	Res440	
25.1471	20.0983	0.032	$R_{\rm C}$	030423.63129	NE,NH	Res440	
27.3283	20.21	0.09	$R_{\rm C}$	030425.81249	NE,NH	Sem 2179	
33.1229	20.692	0.09	$R_{\rm C}$	030501.60709	NE,NH	Res440	
34.29	20.51	0.07	$R_{\rm C}$	030502.77419	NE,NH	Kha2198	
34.302	20.65	0.07	$R_{\rm C}$	030502.78619	NE,NH	Kha2198	

Table 47—Continued

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$\frac{dt}{dt}$	mag	error	band	date	corrections	reference	remark
34.316	20.34	0.06	$R_{\rm C}$	030502.80019	NE,NH	Kha2198	
34.329	20.62	0.08	$R_{\rm C}$	030502.81319	NE,NH	Kha2198	
34.342	20.63	0.07	$R_{\rm c}$	030502.82619	NE,NH	Kha2198	
34.354	20.61	0.07	$R_{\rm c}$	030502.83819	NE,NH	Kha2198	
65.322	21.65	0.07	$R_{\rm C}$	030602.80619	NE,NH	Kha2299	
66.303	21.67	0.06	$R_{\rm C}$	030603.78719	NE,NH	Kha2299	
86.314	21.8	0.1	$R_{\rm C}$	030623.79819	NE,NH	Kha2299	
92.338	21.83	0.1	$R_{\rm C}$	030629.82219	NE,NH	Kha2299	
95.334	21.83	0.17	$R_{\rm C}$	030702.81819	NE,NH	Kha2299	
96.309	21.91	0.28	$R_{\rm C}$	030703.79319	NE,NH	Kha2299	
0.001890	> 5.1		CR	030329.486088	NE,NH	Sas2217	
0.004182	> 3.5		CR	030329.488380	NE,NH	Ofe2031	
0.005038	>4.3		CR	030329.489236	NE,NH	Sas2217	
0.006913	> 3.5		CR	030329.491111	NE,NH	Ofe2031	
0.008858	> 5.1		CR	030329.493056	NE,NH	Sas2217	
0.025871	>4.3		CR	030329.510069	NE,NH	Sas2217	
0.037677	> 8.5		CR	030329.521875	NE,NH	Kat2164	
0.042538	> 8.5		CR	030329.526736	NE,NH	Kat2164	
0.046705	>4.3		CR	030329.530903	NE,NH	Sas2217	
0.062	12.552	0.023	CR	030329.5462	NE,NH	Sat2080	
0.06393287	12.555	0.026	CR	030329.54813	NE,NH	Smi596	
0.064737269	12.558	0.036	CR	030329.54894	NE,NH	Smi596	
0.065542824	12.599	0.061	CR	030329.54974	NE,NH	Smi596	
0.066347222	12.656	0.036	CR	030329.55055	NE,NH	Smi596	
0.067153935	12.577	0.015	CR	030329.55135	NE,NH	Smi596	
0.067958333	12.603	0.03	CR	030329.55216	NE,NH	Smi596	
0.068766204	12.6	0.025	CR	030329.55296	NE,NH	Smi596	
0.069569444	12.619	0.02	CR	030329.55377	NE,NH	Smi596	
0.070378472	12.62	0.026	CR	030329.55458	NE,NH	Smi596	
0.071185185	12.649	0.026	CR	030329.55538	NE,NH	Smi596	
0.071990741	12.67	0.091	CR	030329.55619	NE,NH	Smi596	
0.072791667	12.676	0.031	CR	030329.55699	NE,NH	Smi596	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.073590278	12.698	0.051	CR	030329.55779	NE,NH	Smi596	
0.074394676	12.675	0.021	CR	030329.55859	NE,NH	Smi596	
0.075196759	12.677	0.016	CR	030329.55939	NE,NH	Smi596	
0.07599537	12.77	0.04	CR	030329.56019	NE,NH	Smi596	
0.080006944	12.682	0.02	CR	030329.5642	NE,NH	Smi596	
0.080810185	12.746	0.01	CR	030329.56501	NE,NH	Smi596	
0.08095	13.1	0.1	CR	030329.56515	NE,NH	Mur2044	
0.081611111	12.767	0.01	CR	030329.56581	NE,NH	Smi596	
0.082414352	12.786	0.02	CR	030329.56661	NE,NH	Smi596	
0.083224537	12.8	0.015	CR	030329.56742	NE,NH	Smi596	
0.08403125	12.813	0.015	CR	030329.56823	NE,NH	Smi596	
0.084840278	12.822	0.02	CR	030329.56904	NE,NH	Smi596	
0.085642361	12.818	0.015	CR	030329.56984	NE,NH	Smi596	
0.086476852	12.831	0.02	CR	030329.57067	NE,NH	Smi596	
0.087310185	12.85	0.015	CR	030329.57151	NE,NH	Smi596	
0.088145833	12.836	0.02	CR	030329.57234	NE,NH	Smi596	
0.088978009	12.845	0.015	CR	030329.57318	NE,NH	Smi596	
0.089809028	12.848	0.02	CR	030329.57401	NE,NH	Smi596	
0.1484	13.37	0.029	CR	030329.6326	NE,NH	Sat2080	
0.16888831	13.529	0.125	CR	030329.65309	NE,NH	Smi596	
0.1943	13.604	0.034	CR	030329.6785	NE,NH	Sat2080	
0.198780093	13.799	0.226	CR	030329.68298	NE,NH	Smi596	
0.23493	13.78	0.2	CR	030329.71913	NE,NH	Pri2058	
0.23561	13.802	0.2	CR	030329.71981	NE,NH	Pri2058	
0.2363	13.818	0.2	CR	030329.7205	NE,NH	Pri2058	
0.23701	13.864	0.2	CR	030329.72121	NE,NH	Pri2058	
0.2373	13.799	0.043	CR	030329.7215	NE,NH	Sat2080	
0.2377	13.806	0.2	CR	030329.7219	NE,NH	Pri2058	
0.2384	13.849	0.2	CR	030329.7226	NE,NH	Pri2058	
0.23909	13.794	0.2	CR	030329.72329	NE,NH	Pri2058	
0.2398	13.852	0.2	CR	030329.724	NE,NH	Pri2058	
0.24049	13.814	0.2	CR	030329.72469	NE,NH	Pri2058	
0.24119	13.831	0.2	CR	030329.72539	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.2412	13.83	0.06	CR	030329.7254	NE,NH	Pri5415	
0.24188	13.821	0.2	CR	030329.72608	NE,NH	Pri2058	
0.24258	13.82	0.2	CR	030329.72678	NE,NH	Pri2058	
0.24328	13.82	0.2	CR	030329.72748	NE,NH	Pri2058	
0.24398	13.84	0.2	CR	030329.72818	NE,NH	Pri2058	
0.24467	13.869	0.2	CR	030329.72887	NE,NH	Pri2058	
0.2482	13.86	0.06	CR	030329.7324	NE,NH	Pri5415	
0.24822	13.855	0.2	CR	030329.73242	NE,NH	Pri2058	
0.24891	13.866	0.2	CR	030329.73311	NE,NH	Pri2058	
0.2496	13.876	0.2	CR	030329.7338	NE,NH	Pri2058	
0.25031	13.837	0.2	CR	030329.73451	NE,NH	Pri2058	
0.2517	13.867	0.2	CR	030329.7359	NE,NH	Pri2058	
0.25239	13.853	0.2	CR	030329.73659	NE,NH	Pri2058	
0.25309	13.846	0.2	CR	030329.73729	NE,NH	Pri2058	
0.25449	13.85	0.2	CR	030329.73869	NE,NH	Pri2058	
0.25518	13.904	0.2	CR	030329.73938	NE,NH	Pri2058	
0.25588	13.875	0.2	CR	030329.74008	NE,NH	Pri2058	
0.25657	13.911	0.2	CR	030329.74077	NE,NH	Pri2058	
0.25726	13.9	0.2	CR	030329.74146	NE,NH	Pri2058	
0.2573	13.9	0.06	CR	030329.7415	NE,NH	Pri5415	
0.25797	13.91	0.2	CR	030329.74217	NE,NH	Pri2058	
0.25866	13.93	0.2	CR	030329.74286	NE,NH	Pri2058	
0.25936	13.88	0.2	CR	030329.74356	NE,NH	Pri2058	
0.26005	13.895	0.2	CR	030329.74425	NE,NH	Pri2058	
0.26075	13.939	0.2	CR	030329.74495	NE,NH	Pri2058	
0.26145	13.919	0.2	CR	030329.74565	NE,NH	Pri2058	
0.26215	13.922	0.2	CR	030329.74635	NE,NH	Pri2058	
0.26284	13.907	0.2	CR	030329.74704	NE,NH	Pri2058	
0.26354	13.881	0.2	CR	030329.74774	NE,NH	Pri2058	
0.26423	13.888	0.2	CR	030329.74843	NE,NH	Pri2058	
0.26493	13.89	0.2	CR	030329.74913	NE,NH	Pri2058	
0.26561	13.914	0.2	CR	030329.74981	NE,NH	Pri2058	
0.2663	13.977	0.2	CR	030329.7505	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.267	13.943	0.2	CR	030329.7512	NE,NH	Pri2058	
0.2670	13.94	0.06	CR	030329.7512	NE,NH	Pri5415	
0.26769	13.91	0.2	CR	030329.75189	NE,NH	Pri2058	
0.26838	13.964	0.2	CR	030329.75258	NE,NH	Pri2058	
0.26907	13.967	0.2	CR	030329.75327	NE,NH	Pri2058	
0.26976	13.959	0.2	CR	030329.75396	NE,NH	Pri2058	
0.27045	13.971	0.2	CR	030329.75465	NE,NH	Pri2058	
0.27114	14.004	0.2	CR	030329.75534	NE,NH	Pri2058	
0.27182	13.944	0.2	CR	030329.75602	NE,NH	Pri2058	
0.27252	13.911	0.2	CR	030329.75672	NE,NH	Pri2058	
0.27321	13.961	0.2	CR	030329.75741	NE,NH	Pri2058	
0.27391	13.961	0.2	CR	030329.75811	NE,NH	Pri2058	
0.27459	13.995	0.2	CR	030329.75879	NE,NH	Pri2058	
0.27528	14.026	0.2	CR	030329.75948	NE,NH	Pri2058	
0.27598	13.975	0.2	CR	030329.76018	NE,NH	Pri2058	
0.2760	13.98	0.06	CR	030329.7602	NE,NH	Pri5415	
0.27965	13.985	0.2	CR	030329.76385	NE,NH	Pri2058	
0.28033	13.958	0.2	CR	030329.76453	NE,NH	Pri2058	
0.28101	13.975	0.2	CR	030329.76521	NE,NH	Pri2058	
0.28171	14.056	0.2	CR	030329.76591	NE,NH	Pri2058	
0.28239	14.007	0.2	CR	030329.76659	NE,NH	Pri2058	
0.28309	13.971	0.2	CR	030329.76729	NE,NH	Pri2058	
0.28378	14.003	0.2	CR	030329.76798	NE,NH	Pri2058	
0.28446	14.03	0.2	CR	030329.76866	NE,NH	Pri2058	
0.28516	14.043	0.2	CR	030329.76936	NE,NH	Pri2058	
0.28585	14.04	0.2	CR	030329.77005	NE,NH	Pri2058	
0.28653	14.038	0.2	CR	030329.77073	NE,NH	Pri2058	
0.2872	14.02	0.06	CR	030329.7714	NE,NH	Pri5415	
0.28723	13.951	0.2	CR	030329.77143	NE,NH	Pri2058	
0.28792	14.047	0.2	CR	030329.77212	NE,NH	Pri2058	
0.28861	13.998	0.2	CR	030329.77281	NE,NH	Pri2058	
0.2893	13.999	0.2	CR	030329.7735	NE,NH	Pri2058	
0.29	14.033	0.2	CR	030329.7742	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.29069	14.018	0.2	CR	030329.77489	NE,NH	Pri2058	
0.29137	14.051	0.2	CR	030329.77557	NE,NH	Pri2058	
0.29207	14.073	0.2	CR	030329.77627	NE,NH	Pri2058	
0.29276	13.994	0.2	CR	030329.77696	NE,NH	Pri2058	
0.29346	14.049	0.2	CR	030329.77766	NE,NH	Pri2058	
0.29414	14.009	0.2	CR	030329.77834	NE,NH	Pri2058	
0.29483	14.074	0.2	CR	030329.77903	NE,NH	Pri2058	
0.29553	14.104	0.2	CR	030329.77973	NE,NH	Pri2058	
0.29621	14.022	0.2	CR	030329.78041	NE,NH	Pri2058	
0.29691	14.074	0.2	CR	030329.78111	NE,NH	Pri2058	
0.297	14.145	0.074	CR	030329.7812	NE,NH	Sat2080	
0.2976	14.051	0.2	CR	030329.7818	NE,NH	Pri2058	
0.2976	14.06	0.06	CR	030329.7818	NE,NH	Pri5415	
0.29829	14.084	0.2	CR	030329.78249	NE,NH	Pri2058	
0.29898	14.071	0.2	CR	030329.78318	NE,NH	Pri2058	
0.29967	14.053	0.2	CR	030329.78387	NE,NH	Pri2058	
0.30037	14.104	0.2	CR	030329.78457	NE,NH	Pri2058	
0.30106	14.073	0.2	CR	030329.78526	NE,NH	Pri2058	
0.30174	14.075	0.2	CR	030329.78594	NE,NH	Pri2058	
0.30244	14.115	0.2	CR	030329.78664	NE,NH	Pri2058	
0.30313	14.103	0.2	CR	030329.78733	NE,NH	Pri2058	
0.30383	14.106	0.2	CR	030329.78803	NE,NH	Pri2058	
0.30451	14.1	0.2	CR	030329.78871	NE,NH	Pri2058	
0.3052	14.099	0.2	CR	030329.7894	NE,NH	Pri2058	
0.3059	14.132	0.2	CR	030329.7901	NE,NH	Pri2058	
0.30659		0.2	CR	030329.79079	•	Pri2058	
0.30728	14.111	0.2	CR	030329.79148	NE,NH	Pri2058	
0.3073	14.11	0.06	CR	030329.7915	NE,NH	Pri5415	
0.30797	14.1	0.2	CR	030329.79217	NE,NH	Pri2058	
0.30866	14.112	0.2	CR	030329.79286	NE,NH	Pri2058	
0.30935	14.156	0.2	CR	030329.79355	NE,NH	Pri2058	
0.31004	14.143	0.2	CR	030329.79424	NE,NH	Pri2058	
0.31074	14.108	0.2	CR	030329.79494	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.31142	14.155	0.2	CR	030329.79562	NE,NH	Pri2058	
0.31211	14.135	0.2	CR	030329.79631	NE,NH	Pri2058	
0.3128	14.104	0.2	CR	030329.797	NE,NH	Pri2058	
0.31349	14.146	0.2	CR	030329.79769	NE,NH	Pri2058	
0.31419	14.116	0.2	CR	030329.79839	NE,NH	Pri2058	
0.31556	14.107	0.2	CR	030329.79976	NE,NH	Pri2058	
0.31625	14.175	0.2	CR	030329.80045	NE,NH	Pri2058	
0.31694	14.153	0.2	CR	030329.80114	NE,NH	Pri2058	
0.31763	14.129	0.2	CR	030329.80183	NE,NH	Pri2058	
0.3179	14.15	0.06	CR	030329.8021	NE,NH	Pri5415	
0.31832	14.175	0.2	CR	030329.80252	NE,NH	Pri2058	
0.31901	14.155	0.2	CR	030329.80321	NE,NH	Pri2058	
0.31971	14.173	0.2	CR	030329.80391	NE,NH	Pri2058	
0.32108	14.184	0.2	CR	030329.80528	NE,NH	Pri2058	
0.32177	14.201	0.2	CR	030329.80597	NE,NH	Pri2058	
0.32246	14.13	0.2	CR	030329.80666	NE,NH	Pri2058	
0.32316	14.134	0.2	CR	030329.80736	NE,NH	Pri2058	
0.32384	14.215	0.2	CR	030329.80804	NE,NH	Pri2058	
0.32453	14.171	0.2	CR	030329.80873	NE,NH	Pri2058	
0.32522	14.212	0.2	CR	030329.80942	NE,NH	Pri2058	
0.32591	14.204	0.2	CR	030329.81011	NE,NH	Pri2058	
0.3266	14.196	0.2	CR	030329.8108	NE,NH	Pri2058	
0.3273	14.121	0.2	CR	030329.8115	NE,NH	Pri2058	
0.32798	14.203	0.2	CR	030329.81218	NE,NH	Pri2058	
0.3280	14.2	0.06	CR	030329.8122	NE,NH	Pri5415	
0.32868			CR	030329.81288		Pri2058	
0.32937	14.217	0.2	CR	030329.81357	NE,NH	Pri2058	
0.33007	14.172	0.2	CR	030329.81427	NE,NH	Pri2058	
0.33075	14.184	0.2	CR	030329.81495	NE,NH	Pri2058	
0.33144	14.219	0.2	CR	030329.81564	NE,NH	Pri2058	
0.33214	14.236	0.2	CR	030329.81634	NE,NH	Pri2058	
0.33283	14.219	0.2	CR	030329.81703	NE,NH	Pri2058	
0.33351	14.208	0.2	CR	030329.81771	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.33421	14.198	0.2	CR	030329.81841	NE,NH	Pri2058	
0.3349	14.226	0.2	CR	030329.8191	NE,NH	Pri2058	
0.3356	14.25	0.2	CR	030329.8198	NE,NH	Pri2058	
0.33628	14.205	0.2	CR	030329.82048	NE,NH	Pri2058	
0.33697	14.205	0.2	CR	030329.82117	NE,NH	Pri2058	
0.3370	14.22	0.06	CR	030329.8212	NE,NH	Pri5415	
0.33835	14.186	0.2	CR	030329.82255	NE,NH	Pri2058	
0.33905	14.178	0.2	CR	030329.82325	NE,NH	Pri2058	
0.33973	14.19	0.2	CR	030329.82393	NE,NH	Pri2058	
0.34042	14.228	0.2	CR	030329.82462	NE,NH	Pri2058	
0.34112	14.178	0.2	CR	030329.82532	NE,NH	Pri2058	
0.34276	14.256	0.2	CR	030329.82696	NE,NH	Pri2058	
0.34346	14.31	0.2	CR	030329.82766	NE,NH	Pri2058	
0.34414	14.222	0.2	CR	030329.82834	NE,NH	Pri2058	
0.34482	14.276	0.2	CR	030329.82902	NE,NH	Pri2058	
0.3462	14.266	0.2	CR	030329.8304	NE,NH	Pri2058	
0.34689	14.321	0.2	CR	030329.83109	NE,NH	Pri2058	
0.34758	14.256	0.2	CR	030329.83178	NE,NH	Pri2058	
0.3476	14.28	0.06	CR	030329.8318	NE,NH	Pri5415	
0.34826	14.246	0.2	CR	030329.83246	NE,NH	Pri2058	
0.34895	14.272	0.2	CR	030329.83315	NE,NH	Pri2058	
0.35032	14.317	0.2	CR	030329.83452	NE,NH	Pri2058	
0.35101	14.318	0.2	CR	030329.83521	NE,NH	Pri2058	
0.3517	14.243	0.2	CR	030329.8359	NE,NH	Pri2058	
0.35239	14.292	0.2	CR	030329.83659	NE,NH	Pri2058	
0.35307	14.312	0.2	CR	030329.83727	NE,NH	Pri2058	
0.35376	14.253	0.2	CR	030329.83796	NE,NH	Pri2058	
0.35445	14.309	0.2	CR	030329.83865	NE,NH	Pri2058	
0.35513	14.297	0.2	CR	030329.83933	NE,NH	Pri2058	
0.35583	14.293	0.2	CR	030329.84003	NE,NH	Pri2058	
0.35651	14.31	0.2	CR	030329.84071	NE,NH	Pri2058	
0.35719	14.273	0.2	CR	030329.84139	NE,NH	Pri2058	
0.35789	14.334	0.2	CR	030329.84209	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.35857	14.31	0.2	CR	030329.84277	NE,NH	Pri2058	
0.3586	14.32	0.06	CR	030329.8428	NE,NH	Pri5415	
0.35927	14.371	0.2	CR	030329.84347	NE,NH	Pri2058	
0.35995	14.332	0.2	CR	030329.84415	NE,NH	Pri2058	
0.36063	14.344	0.2	CR	030329.84483	NE,NH	Pri2058	
0.36133	14.308	0.2	CR	030329.84553	NE,NH	Pri2058	
0.36201	14.366	0.2	CR	030329.84621	NE,NH	Pri2058	
0.36269	14.315	0.2	CR	030329.84689	NE,NH	Pri2058	
0.36339	14.353	0.2	CR	030329.84759	NE,NH	Pri2058	
0.36407	14.319	0.2	CR	030329.84827	NE,NH	Pri2058	
0.36476	14.315	0.2	CR	030329.84896	NE,NH	Pri2058	
0.36545	14.262	0.2	CR	030329.84965	NE,NH	Pri2058	
0.36613	14.362	0.2	CR	030329.85033	NE,NH	Pri2058	
0.36682	14.352	0.2	CR	030329.85102	NE,NH	Pri2058	
0.36751	14.324	0.2	CR	030329.85171	NE,NH	Pri2058	
0.3682	14.339	0.2	CR	030329.8524	NE,NH	Pri2058	
0.3682	14.34	0.06	CR	030329.8524	NE,NH	Pri5415	
0.36888	14.368	0.2	CR	030329.85308	NE,NH	Pri2058	
0.36957	14.349	0.2	CR	030329.85377	NE,NH	Pri2058	
0.37026	14.369	0.2	CR	030329.85446	NE,NH	Pri2058	
0.37094	14.375	0.2	CR	030329.85514	NE,NH	Pri2058	
0.37163	14.341	0.2	CR	030329.85583	NE,NH	Pri2058	
0.37232	14.39	0.2	CR	030329.85652	NE,NH	Pri2058	
0.373	14.338	0.2	CR	030329.8572	NE,NH	Pri2058	
0.3737	14.313	0.2	CR	030329.8579	NE,NH	Pri2058	
0.37438	14.355	0.2	CR	030329.85858	NE,NH	Pri2058	
0.37507	14.383	0.2	CR	030329.85927	NE,NH	Pri2058	
0.37576	14.306	0.2	CR	030329.85996	NE,NH	Pri2058	
0.37644	14.343	0.2	CR	030329.86064	NE,NH	Pri2058	
0.37713	14.391	0.2	CR	030329.86133	NE,NH	Pri2058	
0.3778	14.37	0.06	CR	030329.862	NE,NH	Pri5415	
0.37782	14.363	0.2	CR	030329.86202	NE,NH	Pri2058	
0.3785	14.4	0.2	CR	030329.8627	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.3792	14.38	0.2	CR	030329.8634	NE,NH	Pri2058	
0.37988	14.42	0.2	CR	030329.86408	NE,NH	Pri2058	
0.38056	14.392	0.2	CR	030329.86476	NE,NH	Pri2058	
0.38194	14.382	0.2	CR	030329.86614	NE,NH	Pri2058	
0.38263	14.362	0.2	CR	030329.86683	NE,NH	Pri2058	
0.38332	14.457	0.2	CR	030329.86752	NE,NH	Pri2058	
0.384	14.366	0.2	CR	030329.8682	NE,NH	Pri2058	
0.38469	14.348	0.2	CR	030329.86889	NE,NH	Pri2058	
0.38538	14.355	0.2	CR	030329.86958	NE,NH	Pri2058	
0.38744	14.386	0.2	CR	030329.87164	NE,NH	Pri2058	
0.3881	14.39	0.06	CR	030329.8723	NE,NH	Pri5415	
0.38813	14.364	0.2	CR	030329.87233	NE,NH	Pri2058	
0.38882	14.394	0.2	CR	030329.87302	NE,NH	Pri2058	
0.3895	14.43	0.2	CR	030329.8737	NE,NH	Pri2058	
0.39019	14.391	0.2	CR	030329.87439	NE,NH	Pri2058	
0.39225	14.367	0.2	CR	030329.87645	NE,NH	Pri2058	
0.39294	14.382	0.2	CR	030329.87714	NE,NH	Pri2058	
0.39363	14.449	0.2	CR	030329.87783	NE,NH	Pri2058	
0.39431	14.403	0.2	CR	030329.87851	NE,NH	Pri2058	
0.39775	14.436	0.2	CR	030329.88195	NE,NH	Pri2058	
0.3978	14.44	0.06	CR	030329.882	NE,NH	Pri5415	
0.40257	14.461	0.2	CR	030329.88677	NE,NH	Pri2058	
0.40325	14.483	0.2	CR	030329.88745	NE,NH	Pri2058	
0.40394	14.386	0.2	CR	030329.88814	NE,NH	Pri2058	
0.4086	14.48	0.06	CR	030329.8928	NE,NH	Pri5415	
0.40956	14.487	0.2	CR	030329.89376	NE,NH	Pri2058	
0.41024	14.484	0.2	CR	030329.89444	NE,NH	Pri2058	
0.41092	14.474	0.2	CR	030329.89512	NE,NH	Pri2058	
0.41162	14.47	0.2	CR	030329.89582	NE,NH	Pri2058	
0.4123	14.417	0.2	CR	030329.8965	NE,NH	Pri2058	
0.41298	14.496	0.2	CR	030329.89718	NE,NH	Pri2058	
0.41368	14.52	0.2	CR	030329.89788	NE,NH	Pri2058	
0.41436	14.51	0.2	CR	030329.89856	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.41505	14.518	0.2	CR	030329.89925	NE,NH	Pri2058	
0.41574	14.46	0.2	CR	030329.89994	NE,NH	Pri2058	
0.41642	14.454	0.2	CR	030329.90062	NE,NH	Pri2058	
0.4180	14.51	0.06	CR	030329.9022	NE,NH	Pri5415	
0.42055	14.441	0.2	CR	030329.90475	NE,NH	Pri2058	
0.42261	14.567	0.2	CR	030329.90681	NE,NH	Pri2058	
0.42329	14.537	0.2	CR	030329.90749	NE,NH	Pri2058	
0.42399	14.537	0.2	CR	030329.90819	NE,NH	Pri2058	
0.42467	14.472	0.2	CR	030329.90887	NE,NH	Pri2058	
0.42535	14.505	0.2	CR	030329.90955	NE,NH	Pri2058	
0.42605	14.55	0.2	CR	030329.91025	NE,NH	Pri2058	
0.4282	14.54	0.06	CR	030329.9124	NE,NH	Pri5415	
0.43017	14.484	0.2	CR	030329.91437	NE,NH	Pri2058	
0.43085	14.495	0.2	CR	030329.91505	NE,NH	Pri2058	
0.43291	14.557	0.2	CR	030329.91711	NE,NH	Pri2058	
0.4384	14.58	0.06	CR	030329.9226	NE,NH	Pri5415	
0.43842	14.657	0.2	CR	030329.92262	NE,NH	Pri2058	
0.4391	14.551	0.2	CR	030329.9233	NE,NH	Pri2058	
0.43979	14.492	0.2	CR	030329.92399	NE,NH	Pri2058	
0.44048	14.595	0.2	CR	030329.92468	NE,NH	Pri2058	
0.44116	14.602	0.2	CR	030329.92536	NE,NH	Pri2058	
0.44186	14.577	0.2	CR	030329.92606	NE,NH	Pri2058	
0.44322	14.572	0.2	CR	030329.92742	NE,NH	Pri2058	
0.44392	14.55	0.2	CR	030329.92812	NE,NH	Pri2058	
0.44736	14.497	0.2	CR	030329.93156	NE,NH	Pri2058	
0.4474	14.57	0.06	CR	030329.9316	NE,NH	Pri5415	
0.44872	14.537	0.2	CR	030329.93292	NE,NH	Pri2058	
0.44942	14.579	0.2	CR	030329.93362	NE,NH	Pri2058	
0.4501	14.589	0.2	CR	030329.9343	NE,NH	Pri2058	
0.45079	14.638	0.2	CR	030329.93499	NE,NH	Pri2058	
0.45148	14.619	0.2	CR	030329.93568	NE,NH	Pri2058	
0.45216	14.563	0.2	CR	030329.93636	NE,NH	Pri2058	
0.45285	14.542	0.2	CR	030329.93705	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.45354	14.64	0.2	CR	030329.93774	NE,NH	Pri2058	
0.45422	14.588	0.2	CR	030329.93842	NE,NH	Pri2058	
0.45491	14.689	0.2	CR	030329.93911	NE,NH	Pri2058	
0.4556	14.633	0.2	CR	030329.9398	NE,NH	Pri2058	
0.45629	14.62	0.2	CR	030329.94049	NE,NH	Pri2058	
0.4563	14.62	0.06	CR	030329.9405	NE,NH	Pri5415	
0.45697	14.627	0.2	CR	030329.94117	NE,NH	Pri2058	
0.45766	14.616	0.2	CR	030329.94186	NE,NH	Pri2058	
0.45835	14.619	0.2	CR	030329.94255	NE,NH	Pri2058	
0.45903	14.605	0.2	CR	030329.94323	NE,NH	Pri2058	
0.45973	14.628	0.2	CR	030329.94393	NE,NH	Pri2058	
0.46041	14.6	0.2	CR	030329.94461	NE,NH	Pri2058	
0.4611	14.627	0.2	CR	030329.9453	NE,NH	Pri2058	
0.46179	14.62	0.2	CR	030329.94599	NE,NH	Pri2058	
0.46247	14.634	0.2	CR	030329.94667	NE,NH	Pri2058	
0.46317	14.605	0.2	CR	030329.94737	NE,NH	Pri2058	
0.46385	14.649	0.2	CR	030329.94805	NE,NH	Pri2058	
0.46453	14.686	0.2	CR	030329.94873	NE,NH	Pri2058	
0.46523	14.632	0.2	CR	030329.94943	NE,NH	Pri2058	
0.46591	14.597	0.2	CR	030329.95011	NE,NH	Pri2058	
0.46659	14.622	0.2	CR	030329.95079	NE,NH	Pri2058	
0.46729	14.604	0.2	CR	030329.95149	NE,NH	Pri2058	
0.46797	14.637	0.2	CR	030329.95217	NE,NH	Pri2058	
0.4680	14.64	0.06	CR	030329.9522	NE,NH	Pri5415	
0.46866	14.564	0.2	CR	030329.95286	NE,NH	Pri2058	
0.46935	14.607	0.2	CR	030329.95355	NE,NH	Pri2058	
0.47003	14.655	0.2	CR	030329.95423	NE,NH	Pri2058	
0.47072	14.596	0.2	CR	030329.95492	NE,NH	Pri2058	
0.47141	14.715	0.2	CR	030329.95561	NE,NH	Pri2058	
0.47209	14.68	0.2	CR	030329.95629	NE,NH	Pri2058	
0.47278	14.696	0.2	CR	030329.95698	NE,NH	Pri2058	
0.47347	14.675	0.2	CR	030329.95767	NE,NH	Pri2058	
0.47416	14.611	0.2	CR	030329.95836	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.47485	14.709	0.2	CR	030329.95905	NE,NH	Pri2058	
0.47553	14.581	0.2	CR	030329.95973	NE,NH	Pri2058	
0.47622	14.627	0.2	CR	030329.96042	NE,NH	Pri2058	
0.47691	14.712	0.2	CR	030329.96111	NE,NH	Pri2058	
0.47759	14.736	0.2	CR	030329.96179	NE,NH	Pri2058	
0.47828	14.634	0.2	CR	030329.96248	NE,NH	Pri2058	
0.4783	14.68	0.06	CR	030329.9625	NE,NH	Pri5415	
0.47897	14.691	0.2	CR	030329.96317	NE,NH	Pri2058	
0.47966	14.748	0.2	CR	030329.96386	NE,NH	Pri2058	
0.48034	14.738	0.2	CR	030329.96454	NE,NH	Pri2058	
0.48172	14.625	0.2	CR	030329.96592	NE,NH	Pri2058	
0.4824	14.682	0.2	CR	030329.9666	NE,NH	Pri2058	
0.48309	14.703	0.2	CR	030329.96729	NE,NH	Pri2058	
0.48378	14.724	0.2	CR	030329.96798	NE,NH	Pri2058	
0.48446	14.646	0.2	CR	030329.96866	NE,NH	Pri2058	
0.48516	14.691	0.2	CR	030329.96936	NE,NH	Pri2058	
0.48584	14.726	0.2	CR	030329.97004	NE,NH	Pri2058	
0.48652	14.76	0.2	CR	030329.97072	NE,NH	Pri2058	
0.4872	14.71	0.06	CR	030329.9714	NE,NH	Pri5415	
0.48722	14.645	0.2	CR	030329.97142	NE,NH	Pri2058	
0.48892	14.717	0.2	CR	030329.97312	NE,NH	Pri2058	
0.4896	14.747	0.2	CR	030329.9738	NE,NH	Pri2058	
0.4903	14.68	0.2	CR	030329.9745	NE,NH	Pri2058	
0.49099	14.741	0.2	CR	030329.97519	,	Pri2058	
0.49167	14.683	0.2	CR	030329.97587	NE,NH	Pri2058	
0.49237	14.703	0.2	CR	030329.97657	NE,NH	Pri2058	
0.49306	14.642	0.2	CR	030329.97726	NE,NH	Pri2058	
0.49375	14.717	0.2	CR	030329.97795	NE,NH	Pri2058	
0.49444	14.779	0.2	CR	030329.97864	NE,NH	Pri2058	
0.49513	14.798	0.2	CR	030329.97933	NE,NH	Pri2058	
0.49582	14.786	0.2	CR	030329.98002	NE,NH	Pri2058	
0.49651	14.635	0.2	CR	030329.98071	NE,NH	Pri2058	
0.49719	14.75	0.2	CR	030329.98139	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.49789	14.717	0.2	CR	030329.98209	NE,NH	Pri2058	
0.4979	14.73	0.06	CR	030329.9821	NE,NH	Pri5415	
0.49858	14.731	0.2	CR	030329.98278	NE,NH	Pri2058	
0.49927	14.723	0.2	CR	030329.98347	NE,NH	Pri2058	
0.49996	14.699	0.2	CR	030329.98416	NE,NH	Pri2058	
0.622201389	15.1	0.02	CR	030330.1064	NE,NH	Smi596	
0.630214699	15.107	0.02	CR	030330.11441	NE,NH	Smi596	
0.638229745	15.133	0.02	CR	030330.12243	NE,NH	Smi596	
0.710884259	15.354	0.015	CR	030330.19508	NE,NH	Smi596	
0.718884259	15.376	0.01	CR	030330.20308	NE,NH	Smi596	
0.726890046	15.403	0.01	CR	030330.21109	NE,NH	Smi596	
0.734898727	15.42	0.015	CR	030330.2191	NE,NH	Smi596	
0.742899306	15.442	0.011	CR	030330.2271	NE,NH	Smi596	
0.750899884	15.458	0.006	CR	030330.2351	NE,NH	Smi596	
0.758901042	15.485	0.011	CR	030330.2431	NE,NH	Smi596	
0.766908565	15.511	0.006	CR	030330.25111	NE,NH	Smi596	
0.774913773	15.52	0.011	CR	030330.25911	NE,NH	Smi596	
0.782916667	15.555	0.011	CR	030330.26711	NE,NH	Smi596	
0.790921875	15.571	0.006	CR	030330.27512	NE,NH	Smi596	
0.798927083	15.608	0.011	CR	030330.28313	NE,NH	Smi596	
0.806936343	15.644	0.016	CR	030330.29113	NE,NH	Smi596	
0.814943287	15.635	0.016	CR	030330.29914	NE,NH	Smi596	
0.822947917	15.676	0.012	CR	030330.30715	NE,NH	Smi596	
0.830946759	15.702	0.016	CR	030330.31514	NE,NH	Smi596	
0.838947917	15.711	0.016	CR	030330.32315	NE,NH	Smi596	
0.846951968	15.731	0.016	CR	030330.33115	NE,NH	Smi596	
0.854962963	15.787	0.012	CR	030330.33916	NE,NH	Smi596	
0.862972801	15.808	0.012	CR	030330.34717	NE,NH	Smi596	
0.870978009	15.8	0.021	CR	030330.35518	NE,NH	Smi596	
0.878989005	15.821	0.012	CR	030330.36319	NE,NH	Smi596	
0.887001157	15.852	0.012	CR	030330.3712	NE,NH	Smi596	
0.895010417	15.843	0.013	CR	030330.37921	NE,NH	Smi596	
0.903020255	15.87	0.022	CR	030330.38722	NE,NH	Smi596	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
0.911024306	15.93	0.017	CR	030330.39522	NE,NH	Smi596	
0.91902662	15.97	0.022	CR	030330.40322	NE,NH	Smi596	
0.927028935	15.983	0.018	CR	030330.41123	NE,NH	Smi596	
0.935036458	16.004	0.018	CR	030330.41923	NE,NH	Smi596	
0.943047454	16.017	0.023	CR	030330.42725	NE,NH	Smi596	
0.9457	15.987	0.127	CR	030330.4299	NE,NH	Sat2080	
0.950016204	15.937	0.072	CR	030330.43421	NE,NH	Smi596	
0.95105787	16.025	0.023	CR	030330.43526	NE,NH	Smi596	
0.958076389	15.979	0.072	CR	030330.44227	NE,NH	Smi596	
0.959060185	16.052	0.028	CR	030330.44326	NE,NH	Smi596	
0.966134259	16.02	0.066	CR	030330.45033	NE,NH	Smi596	
0.967864005	16.07	0.028	CR	030330.45206	NE,NH	Smi596	
1.0151	16.167	0.081	CR	030330.4993	NE,NH	Sat2080	
1.070231481	16.16	0.042	CR	030330.55443	NE,NH	Smi596	
1.078684606	16.189	0.051	CR	030330.56288	NE,NH	Smi596	
1.086703704	16.167	0.028	CR	030330.5709	NE,NH	Smi596	
1.0936	16.504	0.125	CR	030330.5778	NE,NH	Sat2080	
1.094720486	16.16	0.037	CR	030330.57892	NE,NH	Smi596	
1.102745949	16.157	0.019	CR	030330.58694	NE,NH	Smi596	
1.110770833	16.151	0.032	CR	030330.59497	NE,NH	Smi596	
1.126833912	16.157	0.028	CR	030330.61103	NE,NH	Smi596	
1.134875579	16.191	0.033	CR	030330.61907	NE,NH	Smi596	
1.142912616	16.187	0.033	CR	030330.62711	NE,NH	Smi596	
1.150958333	16.203	0.021	CR	030330.63516	NE,NH	Smi596	
1.2172	16.316	0.14	CR	030330.7014	NE,NH	Sat2080	
1.2525	16.318	0.2	CR	030330.7367	NE,NH	Pri2058	
1.25318	16.379	0.2	CR	030330.73738	NE,NH	Pri2058	
1.25388	16.442	0.2	CR	030330.73808	NE,NH	Pri2058	
1.25459	16.505	0.2	CR	030330.73879	NE,NH	Pri2058	
1.25528	16.166	0.2	CR	030330.73948	NE,NH	Pri2058	
1.2558	16.36	0.06	CR	030330.74	NE,NH	Pri5415	
1.25598	16.634	0.2	CR	030330.74018	NE,NH	Pri2058	
1.25667	16.215	0.2	CR	030330.74087	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
1.25737	16.417	0.2	CR	030330.74157	NE,NH	Pri2058	
1.25806	16.177	0.2	CR	030330.74226	NE,NH	Pri2058	
1.25876	16.284	0.2	CR	030330.74296	NE,NH	Pri2058	
1.25946	16.333	0.2	CR	030330.74366	NE,NH	Pri2058	
1.26016	16.315	0.2	CR	030330.74436	NE,NH	Pri2058	
1.26085	16.383	0.2	CR	030330.74505	NE,NH	Pri2058	
1.26155	16.196	0.2	CR	030330.74575	NE,NH	Pri2058	
1.2618	16.33	0.06	CR	030330.746	NE,NH	Pri5415	
1.26295	16.244	0.2	CR	030330.74715	NE,NH	Pri2058	
1.26364	16.395	0.2	CR	030330.74784	NE,NH	Pri2058	
1.26434	16.637	0.2	CR	030330.74854	NE,NH	Pri2058	
1.26504	16.335	0.2	CR	030330.74924	NE,NH	Pri2058	
1.26574	16.336	0.2	CR	030330.74994	NE,NH	Pri2058	
1.26643	16.085	0.2	CR	030330.75063	NE,NH	Pri2058	
1.26713	16.199	0.2	CR	030330.75133	NE,NH	Pri2058	
1.26853	16.468	0.2	CR	030330.75273	NE,NH	Pri2058	
1.2688	16.3	0.06	CR	030330.753	NE,NH	Pri5415	
1.26922	16.548	0.2	CR	030330.75342	NE,NH	Pri2058	
1.26991	16.406	0.2	CR	030330.75411	NE,NH	Pri2058	
1.27062	16.268	0.2	CR	030330.75482	NE,NH	Pri2058	
1.27132	16.398	0.2	CR	030330.75552	NE,NH	Pri2058	
1.2727	16.312	0.2	CR	030330.7569	NE,NH	Pri2058	
1.27341	16.321	0.2	CR	030330.75761	NE,NH	Pri2058	
1.2741	16.211	0.2	CR	030330.7583	NE,NH	Pri2058	
1.2748	16.166	0.2	CR	030330.759	NE,NH	Pri2058	
1.2755	16.218	0.2	CR	030330.7597	NE,NH	Pri2058	
1.2758	16.32	0.06	CR	030330.76	NE,NH	Pri5415	
1.2762	16.474	0.2	CR	030330.7604	NE,NH	Pri2058	
1.27689	16.268	0.2	CR	030330.76109	NE,NH	Pri2058	
1.27759	16.453	0.2	CR	030330.76179	NE,NH	Pri2058	
1.27829	16.351	0.2	CR	030330.76249	NE,NH	Pri2058	
1.27899	16.425	0.2	CR	030330.76319	NE,NH	Pri2058	
1.27968	16.334	0.2	CR	030330.76388	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
1.28039	16.524	0.2	CR	030330.76459	NE,NH	Pri2058	
1.28108	16.512	0.2	CR	030330.76528	NE,NH	Pri2058	
1.28178	16.18	0.2	CR	030330.76598	NE,NH	Pri2058	
1.28248	16.281	0.2	CR	030330.76668	NE,NH	Pri2058	
1.2828	16.37	0.06	CR	030330.767	NE,NH	Pri5415	
1.28318	16.504	0.2	CR	030330.76738	NE,NH	Pri2058	
1.28387	16.227	0.2	CR	030330.76807	NE,NH	Pri2058	
1.28458	16.409	0.2	CR	030330.76878	NE,NH	Pri2058	
1.28527	16.232	0.2	CR	030330.76947	NE,NH	Pri2058	
1.28597	16.476	0.2	CR	030330.77017	NE,NH	Pri2058	
1.28666	16.591	0.2	CR	030330.77086	NE,NH	Pri2058	
1.28737	16.467	0.2	CR	030330.77157	NE,NH	Pri2058	
1.28806	16.382	0.2	CR	030330.77226	NE,NH	Pri2058	
1.28876	16.585	0.2	CR	030330.77296	NE,NH	Pri2058	
1.28945	16.187	0.2	CR	030330.77365	NE,NH	Pri2058	
1.2898	16.36	0.06	CR	030330.774	NE,NH	Pri5415	
1.29016	16.347	0.2	CR	030330.77436	NE,NH	Pri2058	
1.29085	16.33	0.2	CR	030330.77505	NE,NH	Pri2058	
1.29155	16.425	0.2	CR	030330.77575	NE,NH	Pri2058	
1.29225	16.612	0.2	CR	030330.77645	NE,NH	Pri2058	
1.29295	16.4	0.2	CR	030330.77715	NE,NH	Pri2058	
1.29364	16.14	0.2	CR	030330.77784	NE,NH	Pri2058	
1.29435	16.292	0.2	CR	030330.77855	NE,NH	Pri2058	
1.29504	16.271	0.2	CR	030330.77924	NE,NH	Pri2058	
1.29643	16.261	0.2	CR	030330.78063	NE,NH	Pri2058	
1.2968	16.28	0.06	CR	030330.781	NE,NH	Pri5415	
1.29714	16.47	0.2	CR	030330.78134	NE,NH	Pri2058	
1.29783	16.737	0.2	CR	030330.78203	NE,NH	Pri2058	
1.29853	16.283	0.2	CR	030330.78273	NE,NH	Pri2058	
1.29923	16.11	0.2	CR	030330.78343	NE,NH	Pri2058	
1.29993	16.176	0.2	CR	030330.78413	NE,NH	Pri2058	
1.30062	16.337	0.2	CR	030330.78482	NE,NH	Pri2058	
1.30133	16.254	0.2	CR	030330.78553	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
1.30202	16.254	0.2	CR	030330.78622	NE,NH	Pri2058	
1.30272	16.272	0.2	CR	030330.78692	NE,NH	Pri2058	
1.30341	16.255	0.2	CR	030330.78761	NE,NH	Pri2058	
1.3038	16.32	0.06	CR	030330.788	NE,NH	Pri5415	
1.30412	16.342	0.2	CR	030330.78832	NE,NH	Pri2058	
1.30481	16.173	0.2	CR	030330.78901	NE,NH	Pri2058	
1.3055	16.431	0.2	CR	030330.7897	NE,NH	Pri2058	
1.30621	16.417	0.2	CR	030330.79041	NE,NH	Pri2058	
1.30691	16.168	0.2	CR	030330.79111	NE,NH	Pri2058	
1.3076	16.202	0.2	CR	030330.7918	NE,NH	Pri2058	
1.30831	16.372	0.2	CR	030330.79251	NE,NH	Pri2058	
1.309	16.328	0.2	CR	030330.7932	NE,NH	Pri2058	
1.30969	16.439	0.2	CR	030330.79389	NE,NH	Pri2058	
1.3098	16.34	0.06	CR	030330.794	NE,NH	Pri5415	
1.3104	16.283	0.2	CR	030330.7946	NE,NH	Pri2058	
1.3111	16.327	0.2	CR	030330.7953	NE,NH	Pri2058	
1.31179	16.145	0.2	CR	030330.79599	NE,NH	Pri2058	
1.3125	16.391	0.2	CR	030330.7967	NE,NH	Pri2058	
1.31319	16.368	0.2	CR	030330.79739	NE,NH	Pri2058	
1.31388	16.334	0.2	CR	030330.79808	NE,NH	Pri2058	
1.31459	16.348	0.2	CR	030330.79879	NE,NH	Pri2058	
1.31528	16.274	0.2	CR	030330.79948	NE,NH	Pri2058	
1.31598	16.195	0.2	CR	030330.80018	NE,NH	Pri2058	
1.31669	16.221	0.2	CR	030330.80089	NE,NH	Pri2058	
1.3168	16.29	0.06	CR	030330.801	NE,NH	Pri5415	
1.31738	16.315	0.2	CR	030330.80158	NE,NH	Pri2058	
1.31807	16.348	0.2	CR	030330.80227	NE,NH	Pri2058	
1.3194	16.639	0.1	CR	030330.8036	NE,NH	Pri2058	
1.31976	16.33	0.2	CR	030330.80396	NE,NH	Pri2058	
1.32045	16.298	0.2	CR	030330.80465	NE,NH	Pri2058	
1.32113	16.335	0.2	CR	030330.80533	NE,NH	Pri2058	
1.32181	16.108	0.2	CR	030330.80601	NE,NH	Pri2058	
1.3220	16.6	0.0504	CR	030330.8062	NE,NH	Pri5415	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
1.3225	16.281	0.2	CR	030330.8067	NE,NH	Pri2058	
1.3238	16.35	0.06	CR	030330.808	NE,NH	Pri5415	
1.32387	16.254	0.2	CR	030330.80807	NE,NH	Pri2058	
1.32456	16.36	0.2	CR	030330.80876	NE,NH	Pri2058	
1.32525	16.282	0.2	CR	030330.80945	NE,NH	Pri2058	
1.326	16.802	0.1	CR	030330.8102	NE,NH	Pri2058	
1.32663	16.439	0.2	CR	030330.81083	NE,NH	Pri2058	
1.32731	16.483	0.2	CR	030330.81151	NE,NH	Pri2058	
1.328	16.389	0.2	CR	030330.8122	NE,NH	Pri2058	
1.32938	16.378	0.2	CR	030330.81358	NE,NH	Pri2058	
1.33007	16.328	0.2	CR	030330.81427	NE,NH	Pri2058	
1.33075	16.13	0.2	CR	030330.81495	NE,NH	Pri2058	
1.3308	16.3	0.06	CR	030330.815	NE,NH	Pri5415	
1.33144	16.457	0.2	CR	030330.81564	NE,NH	Pri2058	
1.33213	16.563	0.2	CR	030330.81633	NE,NH	Pri2058	
1.33282	16.182	0.2	CR	030330.81702	NE,NH	Pri2058	
1.3335	16.237	0.2	CR	030330.8177	NE,NH	Pri2058	
1.334	16.627	0.1	CR	030330.8182	NE,NH	Pri2058	
1.33488	16.401	0.2	CR	030330.81908	NE,NH	Pri2058	
1.3350	16.8	0.0526	CR	030330.8192	NE,NH	Pri5415	
1.33556	16.22	0.2	CR	030330.81976	NE,NH	Pri2058	
1.33625	16.485	0.2	CR	030330.82045	NE,NH	Pri2058	
1.3368	16.4	0.06	CR	030330.821	NE,NH	Pri5415	
1.33694	16.482	0.2	CR	030330.82114	NE,NH	Pri2058	
1.33762	16.081	0.2	CR	030330.82182	NE,NH	Pri2058	
1.33832	16.327	0.2	CR	030330.82252	NE,NH	Pri2058	
1.339	16.352	0.2	CR	030330.8232	NE,NH	Pri2058	
1.33968	16.564	0.2	CR	030330.82388	NE,NH	Pri2058	
1.34038	16.511	0.2	CR	030330.82458	NE,NH	Pri2058	
1.34106	16.267	0.2	CR	030330.82526	NE,NH	Pri2058	
1.3413	16.769	0.1	CR	030330.8255	NE,NH	Pri2058	
1.34174	16.132	0.2	CR	030330.82594	NE,NH	Pri2058	
1.34244	16.364	0.2	CR	030330.82664	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
1.3428	16.38	0.06	CR	030330.827	NE,NH	Pri5415	
1.34312	16.334	0.2	CR	030330.82732	NE,NH	Pri2058	
1.3438	16.196	0.2	CR	030330.828	NE,NH	Pri2058	
1.3445	16.573	0.2	CR	030330.8287	NE,NH	Pri2058	
1.34518	16.511	0.2	CR	030330.82938	NE,NH	Pri2058	
1.34588	16.49	0.2	CR	030330.83008	NE,NH	Pri2058	
1.34656	16.504	0.2	CR	030330.83076	NE,NH	Pri2058	
1.3471	16.71	0.0515	CR	030330.8313	NE,NH	Pri5415	
1.34724	16.288	0.2	CR	030330.83144	NE,NH	Pri2058	
1.3479	16.682	0.1	CR	030330.8321	NE,NH	Pri2058	
1.34794	16.505	0.2	CR	030330.83214	NE,NH	Pri2058	
1.34862	16.402	0.2	CR	030330.83282	NE,NH	Pri2058	
1.3493	16.36	0.2	CR	030330.8335	NE,NH	Pri2058	
1.3498	16.45	0.06	CR	030330.834	NE,NH	Pri5415	
1.35	16.403	0.2	CR	030330.8342	NE,NH	Pri2058	
1.35068	16.706	0.2	CR	030330.83488	NE,NH	Pri2058	
1.35137	16.067	0.2	CR	030330.83557	NE,NH	Pri2058	
1.35206	16.506	0.2	CR	030330.83626	NE,NH	Pri2058	
1.35274	16.359	0.2	CR	030330.83694	NE,NH	Pri2058	
1.35343	16.225	0.2	CR	030330.83763	NE,NH	Pri2058	
1.35412	16.353	0.2	CR	030330.83832	NE,NH	Pri2058	
1.3544	16.649	0.1	CR	030330.8386	NE,NH	Pri2058	
1.3548	16.297	0.2	CR	030330.839	NE,NH	Pri2058	
1.35549	16.407	0.2	CR	030330.83969	NE,NH	Pri2058	
1.35618	16.524	0.2	CR	030330.84038	NE,NH	Pri2058	
1.3568	16.35	0.06	CR	030330.841	NE,NH	Pri5415	
1.35687	16.101	0.2	CR	030330.84107	NE,NH	Pri2058	
1.35755	16.426	0.2	CR	030330.84175	NE,NH	Pri2058	
1.35824	16.424	0.2	CR	030330.84244	NE,NH	Pri2058	
1.35893	16.433	0.2	CR	030330.84313	NE,NH	Pri2058	
1.3595	16.8	0.0527	CR	030330.8437	NE,NH	Pri5415	
1.35961	16.09	0.2	CR	030330.84381	NE,NH	Pri2058	
1.3603	16.474	0.2	CR	030330.8445	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
1.36099	16.465	0.2	CR	030330.84519	NE,NH	Pri2058	
1.36167	16.322	0.2	CR	030330.84587	NE,NH	Pri2058	
1.36237	16.538	0.2	CR	030330.84657	NE,NH	Pri2058	
1.3624	16.145	0.4	CR	030330.8466	NE,NH	Pri2058	
1.36305	16.35	0.2	CR	030330.84725	NE,NH	Pri2058	
1.36373	16.467	0.2	CR	030330.84793	NE,NH	Pri2058	
1.3638	16.36	0.06	CR	030330.848	NE,NH	Pri5415	
1.36511	16.282	0.2	CR	030330.84931	NE,NH	Pri2058	
1.36579	16.321	0.2	CR	030330.84999	NE,NH	Pri2058	
1.36649	16.52	0.2	CR	030330.85069	NE,NH	Pri2058	
1.36717	16.291	0.2	CR	030330.85137	NE,NH	Pri2058	
1.36787	16.372	0.2	CR	030330.85207	NE,NH	Pri2058	
1.36855	16.479	0.2	CR	030330.85275	NE,NH	Pri2058	
1.369	16.376	0.1	CR	030330.8532	NE,NH	Pri2058	
1.36923	16.607	0.2	CR	030330.85343	NE,NH	Pri2058	
1.36993	16.24	0.2	CR	030330.85413	NE,NH	Pri2058	
1.37061	16.457	0.2	CR	030330.85481	NE,NH	Pri2058	
1.3708	16.43	0.06	CR	030330.855	NE,NH	Pri5415	
1.37129	16.235	0.2	CR	030330.85549	NE,NH	Pri2058	
1.3719	16.63	0.0488	CR	030330.8561	NE,NH	Pri5415	
1.37199	16.335	0.2	CR	030330.85619	NE,NH	Pri2058	
1.37336	16.339	0.2	CR	030330.85756	NE,NH	Pri2058	
1.37405	16.305	0.2	CR	030330.85825	NE,NH	Pri2058	
1.37473	16.441	0.2	CR	030330.85893	NE,NH	Pri2058	
1.37542	16.487	0.2	CR	030330.85962	NE,NH	Pri2058	
1.3756	16.723	0.1	CR	030330.8598	NE,NH	Pri2058	
1.37611	16.331	0.2	CR	030330.86031	NE,NH	Pri2058	
1.37679	16.259	0.2	CR	030330.86099	NE,NH	Pri2058	
1.37748	16.532	0.2	CR	030330.86168	NE,NH	Pri2058	
1.3778	16.4	0.06	CR	030330.862	NE,NH	Pri5415	
1.37817	16.359	0.2	CR	030330.86237	NE,NH	Pri2058	
1.37885	16.318	0.2	CR	030330.86305	NE,NH	Pri2058	
1.37954	16.239	0.2	CR	030330.86374	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
1.38023	16.271	0.2	CR	030330.86443	NE,NH	Pri2058	
1.38092	16.424	0.2	CR	030330.86512	NE,NH	Pri2058	
1.3816	16.359	0.2	CR	030330.8658	NE,NH	Pri2058	
1.38229	16.274	0.2	CR	030330.86649	NE,NH	Pri2058	
1.3828	16.445	0.1	CR	030330.867	NE,NH	Pri2058	
1.38298	16.391	0.2	CR	030330.86718	NE,NH	Pri2058	
1.38366	16.193	0.2	CR	030330.86786	NE,NH	Pri2058	
1.3839	16.66	0.0507	CR	030330.8681	NE,NH	Pri5415	
1.38435	16.329	0.2	CR	030330.86855	NE,NH	Pri2058	
1.3848	16.32	0.06	CR	030330.869	NE,NH	Pri5415	
1.38504	16.29	0.2	CR	030330.86924	NE,NH	Pri2058	
1.38572	16.298	0.2	CR	030330.86992	NE,NH	Pri2058	
1.38642	16.593	0.2	CR	030330.87062	NE,NH	Pri2058	
1.3871	16.422	0.2	CR	030330.8713	NE,NH	Pri2058	
1.38778	16.229	0.2	CR	030330.87198	NE,NH	Pri2058	
1.38848	16.533	0.2	CR	030330.87268	NE,NH	Pri2058	
1.38916	16.243	0.2	CR	030330.87336	NE,NH	Pri2058	
1.3894	16.559	0.1	CR	030330.8736	NE,NH	Pri2058	
1.38985	16.447	0.2	CR	030330.87405	NE,NH	Pri2058	
1.39054	16.429	0.2	CR	030330.87474	NE,NH	Pri2058	
1.39122	16.479	0.2	CR	030330.87542	NE,NH	Pri2058	
1.3918	16.44	0.06	CR	030330.876	NE,NH	Pri5415	
1.39192	16.349	0.2	CR	030330.87612	NE,NH	Pri2058	
1.3926	16.255	0.2	CR	030330.8768	NE,NH	Pri2058	
1.39328	16.429	0.2	CR	030330.87748	NE,NH	Pri2058	
1.39398	16.563	0.2	CR	030330.87818	NE,NH	Pri2058	
1.39466	16.406	0.2	CR	030330.87886	NE,NH	Pri2058	
1.3959	16.92	0.0554	CR	030330.8801	NE,NH	Pri5415	
1.396	16.816	0.1	CR	030330.8802	NE,NH	Pri2058	
1.39604	16.393	0.2	CR	030330.88024	NE,NH	Pri2058	
1.39672	16.218	0.2	CR	030330.88092	NE,NH	Pri2058	
1.39741	16.328	0.2	CR	030330.88161	NE,NH	Pri2058	
1.3981	16.171	0.2	CR	030330.8823	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
1.39947	16.432	0.2	CR	030330.88367	NE,NH	Pri2058	
1.40016	16.343	0.2	CR	030330.88436	NE,NH	Pri2058	
1.40084	16.525	0.2	CR	030330.88504	NE,NH	Pri2058	
1.40153	16.382	0.2	CR	030330.88573	NE,NH	Pri2058	
1.40222	16.221	0.2	CR	030330.88642	NE,NH	Pri2058	
1.40291	16.731	0.2	CR	030330.88711	NE,NH	Pri2058	
1.4032	16.934	0.1	CR	030330.8874	NE,NH	Pri2058	
1.4036	16.385	0.2	CR	030330.8878	NE,NH	Pri2058	
1.40428	16.316	0.2	CR	030330.88848	NE,NH	Pri2058	
1.40497	16.337	0.2	CR	030330.88917	NE,NH	Pri2058	
1.40566	16.297	0.2	CR	030330.88986	NE,NH	Pri2058	
1.4058	16.44	0.06	CR	030330.89	NE,NH	Pri5415	
1.40634	16.436	0.2	CR	030330.89054	NE,NH	Pri2058	
1.40703	16.546	0.2	CR	030330.89123	NE,NH	Pri2058	
1.40772	16.357	0.2	CR	030330.89192	NE,NH	Pri2058	
1.40841	16.301	0.2	CR	030330.89261	NE,NH	Pri2058	
1.40909	16.284	0.2	CR	030330.89329	NE,NH	Pri2058	
1.40978	16.418	0.2	CR	030330.89398	NE,NH	Pri2058	
1.4098	16.825	0.1	CR	030330.894	NE,NH	Pri2058	
1.4098	16.9	0.0502	CR	030330.894	NE,NH	Pri5415	
1.41047	16.392	0.2	CR	030330.89467	NE,NH	Pri2058	
1.41115	16.284	0.2	CR	030330.89535	NE,NH	Pri2058	
1.41184	16.443	0.2	CR	030330.89604	NE,NH	Pri2058	
1.41253	16.466	0.2	CR	030330.89673	NE,NH	Pri2058	
1.4128	16.41	0.06	CR	030330.897	NE,NH	Pri5415	
1.41321	16.268	0.2	CR	030330.89741	NE,NH	Pri2058	
1.4139	16.257	0.2	CR	030330.8981	NE,NH	Pri2058	
1.41459	16.472	0.2	CR	030330.89879	NE,NH	Pri2058	
1.41527	16.4	0.2	CR	030330.89947	NE,NH	Pri2058	
1.4156	16.872	0.1	CR	030330.8998	NE,NH	Pri2058	
1.41597	16.285	0.2	CR	030330.90017	NE,NH	Pri2058	
1.41665	16.474	0.2	CR	030330.90085	NE,NH	Pri2058	
1.41733	16.454	0.2	CR	030330.90153	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
1.41803	16.369	0.2	CR	030330.90223	NE,NH	Pri2058	
1.41871	16.312	0.2	CR	030330.90291	NE,NH	Pri2058	
1.4188	16.35	0.06	CR	030330.903	NE,NH	Pri5415	
1.41939	16.291	0.2	CR	030330.90359	NE,NH	Pri2058	
1.42009	16.227	0.2	CR	030330.90429	NE,NH	Pri2058	
1.42077	16.381	0.2	CR	030330.90497	NE,NH	Pri2058	
1.42147	16.345	0.2	CR	030330.90567	NE,NH	Pri2058	
1.42215	16.235	0.2	CR	030330.90635	NE,NH	Pri2058	
1.42283	16.258	0.2	CR	030330.90703	NE,NH	Pri2058	
1.42353	16.409	0.2	CR	030330.90773	NE,NH	Pri2058	
1.42421	16.484	0.2	CR	030330.90841	NE,NH	Pri2058	
1.4248	16.4	0.06	CR	030330.909	NE,NH	Pri5415	
1.42489	16.42	0.2	CR	030330.90909	NE,NH	Pri2058	
1.42559	16.479	0.2	CR	030330.90979	NE,NH	Pri2058	
1.42627	16.336	0.2	CR	030330.91047	NE,NH	Pri2058	
1.42696	16.167	0.2	CR	030330.91116	NE,NH	Pri2058	
1.42765	16.593	0.2	CR	030330.91185	NE,NH	Pri2058	
1.42902	16.415	0.2	CR	030330.91322	NE,NH	Pri2058	
1.42971	16.436	0.2	CR	030330.91391	NE,NH	Pri2058	
1.43039	16.176	0.2	CR	030330.91459	NE,NH	Pri2058	
1.43108	16.283	0.2	CR	030330.91528	NE,NH	Pri2058	
1.43177	16.551	0.2	CR	030330.91597	NE,NH	Pri2058	
1.4318	16.33	0.06	CR	030330.916	NE,NH	Pri5415	
1.43246	16.377	0.2	CR	030330.91666	NE,NH	Pri2058	
1.43314	16.417	0.2	CR	030330.91734	NE,NH	Pri2058	
1.43452	16.465	0.2	CR	030330.91872	NE,NH	Pri2058	
1.4352	16.324	0.2	CR	030330.9194	NE,NH	Pri2058	
1.43589	16.379	0.2	CR	030330.92009	NE,NH	Pri2058	
1.43658	16.568	0.2	CR	030330.92078	NE,NH	Pri2058	
1.43726	16.705	0.2	CR	030330.92146	NE,NH	Pri2058	
1.4378	16.44	0.06	CR	030330.922	NE,NH	Pri5415	
1.43796	16.509	0.2	CR	030330.92216	NE,NH	Pri2058	
1.43864	16.181	0.2	CR	030330.92284	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
1.43932	16.349	0.2	CR	030330.92352	NE,NH	Pri2058	
1.44002	16.374	0.2	CR	030330.92422	NE,NH	Pri2058	
1.4407	16.566	0.2	CR	030330.9249	NE,NH	Pri2058	
1.4414	16.372	0.2	CR	030330.9256	NE,NH	Pri2058	
1.44208	16.124	0.2	CR	030330.92628	NE,NH	Pri2058	
1.44276	16.301	0.2	CR	030330.92696	NE,NH	Pri2058	
1.44346	16.287	0.2	CR	030330.92766	NE,NH	Pri2058	
1.44414	16.282	0.2	CR	030330.92834	NE,NH	Pri2058	
1.44482	16.223	0.2	CR	030330.92902	NE,NH	Pri2058	
1.44552	16.422	0.2	CR	030330.92972	NE,NH	Pri2058	
1.4462	16.188	0.2	CR	030330.9304	NE,NH	Pri2058	
1.44688	16.575	0.2	CR	030330.93108	NE,NH	Pri2058	
1.44758	16.128	0.2	CR	030330.93178	NE,NH	Pri2058	
1.44826	16.282	0.2	CR	030330.93246	NE,NH	Pri2058	
1.44895	16.138	0.2	CR	030330.93315	NE,NH	Pri2058	
1.44964	16.465	0.2	CR	030330.93384	NE,NH	Pri2058	
1.45032	16.269	0.2	CR	030330.93452	NE,NH	Pri2058	
1.4517	16.315	0.2	CR	030330.9359	NE,NH	Pri2058	
1.45238	16.49	0.2	CR	030330.93658	NE,NH	Pri2058	
1.4528	16.42	0.06	CR	030330.937	NE,NH	Pri5415	
1.45307	16.38	0.2	CR	030330.93727	NE,NH	Pri2058	
1.45376	16.361	0.2	CR	030330.93796	NE,NH	Pri2058	
1.45445	16.279	0.2	CR	030330.93865	NE,NH	Pri2058	
1.45513	16.144	0.2	CR	030330.93933	NE,NH	Pri2058	
1.45582	16.2	0.2	CR	030330.94002	NE,NH	Pri2058	
1.45719	16.303	0.2	CR	030330.94139	NE,NH	Pri2058	
1.45788	16.318	0.2	CR	030330.94208	NE,NH	Pri2058	
1.45857	16.157	0.2	CR	030330.94277	NE,NH	Pri2058	
1.45925	16.14	0.2	CR	030330.94345	NE,NH	Pri2058	
1.45995	16.087	0.2	CR	030330.94415	NE,NH	Pri2058	
1.46063	16.469	0.2	CR	030330.94483	NE,NH	Pri2058	
1.46132	16.435	0.2	CR	030330.94552	NE,NH	Pri2058	
1.46201	16.351	0.2	CR	030330.94621	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
1.46269	16.364	0.2	CR	030330.94689	NE,NH	Pri2058	
1.46338	16.24	0.2	CR	030330.94758	NE,NH	Pri2058	
1.46475	16.086	0.2	CR	030330.94895	NE,NH	Pri2058	
1.46545	16.253	0.2	CR	030330.94965	NE,NH	Pri2058	
1.46613	16.304	0.2	CR	030330.95033	NE,NH	Pri2058	
1.46681	16.503	0.2	CR	030330.95101	NE,NH	Pri2058	
1.46751	16.207	0.2	CR	030330.95171	NE,NH	Pri2058	
1.46819	16.271	0.2	CR	030330.95239	NE,NH	Pri2058	
1.46887	16.09	0.2	CR	030330.95307	NE,NH	Pri2058	
1.46957	16.068	0.2	CR	030330.95377	NE,NH	Pri2058	
1.47025	16.364	0.2	CR	030330.95445	NE,NH	Pri2058	
1.47093	16.177	0.2	CR	030330.95513	NE,NH	Pri2058	
1.47163	16.619	0.2	CR	030330.95583	NE,NH	Pri2058	
1.47231	16.327	0.2	CR	030330.95651	NE,NH	Pri2058	
1.473	16.038	0.2	CR	030330.9572	NE,NH	Pri2058	
1.47369	16.115	0.2	CR	030330.95789	NE,NH	Pri2058	
1.4738	16.32	0.06	CR	030330.958	NE,NH	Pri5415	
1.47437	16.224	0.2	CR	030330.95857	NE,NH	Pri2058	
1.47507	16.265	0.2	CR	030330.95927	NE,NH	Pri2058	
1.47575	16.533	0.2	CR	030330.95995	NE,NH	Pri2058	
1.47643	16.147	0.2	CR	030330.96063	NE,NH	Pri2058	
1.47713	16.322	0.2	CR	030330.96133	NE,NH	Pri2058	
1.47781	15.926	0.2	CR	030330.96201	NE,NH	Pri2058	
1.47849	16.154	0.2	CR	030330.96269	NE,NH	Pri2058	
1.47919	16.244	0.2	CR	030330.96339	NE,NH	Pri2058	
1.47987	16.13	0.2	CR	030330.96407	NE,NH	Pri2058	
1.48056	16.295	0.2	CR	030330.96476	NE,NH	Pri2058	
1.4808	16.3	0.06	CR	030330.965	NE,NH	Pri5415	
1.48125	16.382	0.2	CR	030330.96545	NE,NH	Pri2058	
1.48193	16.154	0.2	CR	030330.96613	NE,NH	Pri2058	
1.48262	16.208	0.2	CR	030330.96682	NE,NH	Pri2058	
1.48331	16.182	0.2	CR	030330.96751	NE,NH	Pri2058	
1.48399	16.268	0.2	CR	030330.96819	NE,NH	Pri2058	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
1.48468	16.429	0.2	CR	030330.96888	NE,NH	Pri2058	
1.48537	16.221	0.2	CR	030330.96957	NE,NH	Pri2058	
1.48606	16.259	0.2	CR	030330.97026	NE,NH	Pri2058	
1.48674	16.671	0.2	CR	030330.97094	NE,NH	Pri2058	
1.48743	16.526	0.2	CR	030330.97163	NE,NH	Pri2058	
1.48812	16.239	0.2	CR	030330.97232	NE,NH	Pri2058	
1.4888	16.045	0.2	CR	030330.973	NE,NH	Pri2058	
1.49018	16.159	0.2	CR	030330.97438	NE,NH	Pri2058	
1.49086	16.339	0.2	CR	030330.97506	NE,NH	Pri2058	
1.49156	16.431	0.2	CR	030330.97576	NE,NH	Pri2058	
1.49224	16.058	0.2	CR	030330.97644	NE,NH	Pri2058	
1.49292	16.275	0.2	CR	030330.97712	NE,NH	Pri2058	
1.49362	16.193	0.2	CR	030330.97782	NE,NH	Pri2058	
1.4948	16.34	0.06	CR	030330.979	NE,NH	Pri5415	
1.49706	16.23	0.2	CR	030330.98126	NE,NH	Pri2058	
1.49774	16.409	0.2	CR	030330.98194	NE,NH	Pri2058	
1.49842	16.366	0.2	CR	030330.98262	NE,NH	Pri2058	
1.49912	16.132	0.2	CR	030330.98332	NE,NH	Pri2058	
1.4998	16.171	0.2	CR	030330.984	NE,NH	Pri2058	
1.50048	16.109	0.2	CR	030330.98468	NE,NH	Pri2058	
1.50118	15.943	0.2	CR	030330.98538	NE,NH	Pri2058	
1.50186	16.568	0.2	CR	030330.98606	NE,NH	Pri2058	
1.50255	16.274	0.2	CR	030330.98675	NE,NH	Pri2058	
1.50324	16.234	0.2	CR	030330.98744	NE,NH	Pri2058	
1.50461	16.257	0.2	CR	030330.98881	NE,NH	Pri2058	
1.50598	16.399	0.2	CR	030330.99018	NE,NH	Pri2058	
1.50667	16.531	0.2	CR	030330.99087	NE,NH	Pri2058	
1.634484954	16.198	0.016	CR	030331.11868	NE,NH	Smi596	
1.643339699	16.21	0.016	CR	030331.12754	NE,NH	Smi596	
1.651340278	16.209	0.012	CR	030331.13554	NE,NH	Smi596	
1.65934375	16.213	0.012	CR	030331.14354	NE,NH	Smi596	
1.667347801	16.224	0.012	CR	030331.15155	NE,NH	Smi596	
1.675358796	16.235	0.012	CR	030331.15956	NE,NH	Smi596	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
1.683372685	16.251	0.012	CR	030331.16757	NE,NH	Smi596	
1.691385417	16.256	0.012	CR	030331.17558	NE,NH	Smi596	
1.699395255	16.283	0.012	CR	030331.18359	NE,NH	Smi596	
1.707403356	16.298	0.008	CR	030331.1916	NE,NH	Smi596	
1.723421296	16.303	0.012	CR	030331.20762	NE,NH	Smi596	
1.731428819	16.313	0.012	CR	030331.21563	NE,NH	Smi596	
1.739434606	16.329	0.012	CR	030331.22363	NE,NH	Smi596	
1.748538194	16.345	0.012	CR	030331.23274	NE,NH	Smi596	
1.757646412	16.355	0.012	CR	030331.24184	NE,NH	Smi596	
1.765649884	16.367	0.008	CR	030331.24985	NE,NH	Smi596	
1.773655093	16.374	0.012	CR	030331.25785	NE,NH	Smi596	
1.781662037	16.408	0.012	CR	030331.26586	NE,NH	Smi596	
1.789672454	16.397	0.008	CR	030331.27387	NE,NH	Smi596	
1.797696759	16.431	0.012	CR	030331.28189	NE,NH	Smi596	
1.80571875	16.435	0.008	CR	030331.28992	NE,NH	Smi596	
1.813735532	16.436	0.013	CR	030331.29793	NE,NH	Smi596	
1.821744213	16.458	0.013	CR	030331.30594	NE,NH	Smi596	
1.829762153	16.452	0.009	CR	030331.31396	NE,NH	Smi596	
1.83777662	16.46	0.013	CR	030331.32197	NE,NH	Smi596	
1.845795139	16.475	0.013	CR	030331.32999	NE,NH	Smi596	
1.853807292	16.499	0.013	CR	030331.33801	NE,NH	Smi596	
1.861818866	16.498	0.013	CR	030331.34602	NE,NH	Smi596	
1.869835069	16.511	0.014	CR	030331.35403	NE,NH	Smi596	
1.877848958	16.516	0.018	CR	030331.36205	NE,NH	Smi596	
1.885865162	16.51	0.018	CR	030331.37006	NE,NH	Smi596	
1.893880787	16.491	0.018	CR	030331.37808	NE,NH	Smi596	
1.901890625	16.491	0.023	CR	030331.38609	NE,NH	Smi596	
1.909901042	16.505	0.023	CR	030331.3941	NE,NH	Smi596	
1.917918403	16.52	0.018	CR	030331.40212	NE,NH	Smi596	
1.925935764	16.502	0.023	CR	030331.41013	NE,NH	Smi596	
2.005	17.087	0.212	CR	030331.4892	NE,NH	Sat2080	
2.1238	17.148	0.207	CR	030331.608	NE,NH	Sat2080	
2.3558	16.67	0.1	CR	030331.84	NE,NH	Pri5415	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
2.3628	16.77	0.1	CR	030331.847	NE,NH	Pri5415	
2.3698	16.77	0.1	CR	030331.847	NE,NH	Pri5415	
2.3768	16.79 16.77	0.1	CR	030331.861	NE,NH	Pri5415	
2.3838	16.8	0.1	CR	030331.868	NE,NH	Pri5415	
2.3908	16.8	0.1	CR	030331.875	NE,NH	Pri5415	
2.3978	16.9	0.1	CR	030331.882	NE,NH	Pri5415	
2.4058	16.7	0.1	CR	030331.89	NE,NH	Pri5415	
2.4128	16.89	0.1	CR	030331.897	NE,NH	Pri5415	
2.4198	16.9	0.1	CR	030331.904	NE,NH	Pri5415	
2.4258	16.87	0.1	CR	030331.91	NE,NH	Pri5415	
2.4328	16.8	0.1	CR	030331.917	NE,NH	Pri5415	
2.4398	16.82	0.1	CR	030331.924	NE,NH	Pri5415	
2.4458	16.84	0.1	CR	030331.93	NE,NH	Pri5415	
2.5321	16.72	0.45	CR	030401.0163	NE,NH	Klo2247	
2.56962	16.86	0.5	CR	030401.05382	NE,NH	Pri2058	
2.58386	17.14	0.5	CR	030401.06806	NE,NH	Pri2058	
2.59566	16.94	0.5	CR	030401.07986		Pri2058	
2.6198	16.75	0.09	CR	030401.104	NE,NH	Pri5415	
2.64462	17.04	0.5	CR	030401.12882	NE,NH	Pri2058	
2.9198	17.51	0.05	CR	030401.404	NE,NH	Pri5415	
3.2778	16.92	0.1	CR	030401.762	NE,NH	Pri5415	
3.286	16.86	0.1	CR	030401.7702	NE,NH	Pri2058	
3.3628	16.98	0.1	CR	030401.847	NE,NH	Pri5415	
3.366	16.94	0.1	CR	030401.8502	NE,NH	Pri2058	
3.5758	17	0.09	CR	030402.06	NE,NH	Pri5415	
3.57656	17.46	0.8	CR	030402.06076	NE,NH	Pri2058	
3.605	17.6	0.2	CR	030402.0892	NE,NH	Pri2058	
3.6058	17.16	0.14	CR	030402.09	NE,NH	Pri5415	
4.2588	17.84	0.15	CR	030402.743	NE,NH	Pri5415	
4.3148	17.78	0.1	CR	030402.799	NE,NH	Pri5415	
4.66341	18.26	0.5	CR	030403.14761	NE,NH	Pri2058	
4.6648	17.74	0.08	CR	030403.149	NE,NH	Pri5415	
5.2478	17.37	0.1	CR	030403.732	NE,NH	Pri5415	

Table 47—Continued

dt	mag	error	band	date	corrections	reference	remark
5.3427	18.07	0.0527	CR	030403.8269	NE,NH	Pri5415	
5.3853	18.03	0.0471	CR	030403.8695	NE,NH	Pri5415	
5.4499	18.13	0.0497	CR	030403.9341	NE,NH	Pri5415	
5.4936	18.27	0.0512	CR	030403.9778	NE,NH	Pri5415	
5.5377	17.92	0.0492	CR	030404.0219	NE,NH	Pri5415	
5.6095	17.55	0.13	CR	030404.0937	NE,NH	Pri5415	
6.3008	18.24	0.15	CR	030404.785	NE,NH	Pri5415	
6.3689	18.55	0.36	CR	030404.8531	NE,NH	Klo2247	
6.5363	18.98	0.04	CR	030405.0205	NE,NH	Pri2058	
6.607	18.3	0.2	CR	030405.0912	NE,NH	Pri2058	
6.6150	18.3	0.2	CR	030405.0992	NE,NH	Pri5415	
6.8239	18.74	0.07	CR	030405.3081	NE,NH	Pri5415	
7.2938	18.71	0.2	CR	030405.778	NE,NH	Pri5415	
7.4408	18.52	0.05	CR	030405.925	NE,NH	Pri5415	
7.8658	19.11	0.1	CR	030406.35	NE,NH	Pri5415	
8.3278	18.73	0.13	CR	030406.812	NE,NH	Pri5415	
8.4234	18.58	0.33	CR	030406.9076	NE,NH	Klo2247	
9.4349	18.68	0.23	CR	030407.9191	NE,NH	Klo2247	
10.369	18.81	0.44	CR	030408.8532	NE,NH	Klo2247	
23.4315	19.93	0.15	CR	030421.9157	NE,NH	Klo2247	
358.516	22.61	0.04	C3	040322.000	NE,NH	Gor488	
358.516	22.81	0.04	C3	040322.000	NE,NH	Gor488	2

Bar2030 = Bartolini, C. et al. 2003, GCN 2030

 $\mathrm{Bur}2046=\mathrm{Burenin},\,\mathrm{R.}$ et al. 2003, GCN 2046

Bur2054 = Burenin, R. et al. 2003, GCN 2054

Bur2079 = Burenin, R. et al. 2003, GCN 2079

Bur2260 = Burenin, R. et al. 2003, GCN 2260

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Can 2074 = Cantiello, M. et al. 2003, GCN 2074
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Gor488 = Gorosabel, J. et al. 2005, A&A, in press (astro-ph/0507488)

Ibr2077 = Ibrahimov, M. A. et al. 2003, GCN 2077

Ibr2084 = Ibrahimov, M. A. et al. 2003, GCN 2084

Ibr2098 = Ibrahimov, M. A. et al. 2003, GCN 2098

Ibr2160 = Ibrahimov, M. A. et al. 2003, GCN 2160

Ibr2191 = Ibrahimov, M. A. et al. 2003, GCN 2191

Ibr2219 = Ibrahimov, M. A. et al. 2003, GCN 2219

Ibr2288 = Ibrahimov, M. A. et al. 2003, GCN 2288

Kat2164 = Kato, T. et al. 2003, GCN 2164

Kha2094 = Khamitov, I. et al. 2003, GCN 2094

Kha2105 = Khamitov, I. et al. 2003, GCN 2105

Kha2108 = Khamitov, I. et al. 2003, GCN 2108

Kha2119 = Khamitov, I. et al. 2003, GCN 2119

Kha2198 = Khamitov, I. et al. 2003, GCN 2198

Kha2299 = Khamitov, I. et al. 2003, GCN 2299

Kin2193 = Kindt, L. et al. 2003, GCN 2193

Klo2246 = Klotz, A. et al. 2003, GCN 2246

Klo2247 = Klotz, A. et al. 2003, GCN 2247

Lip2091 = Lipunov, V. et al. 2003, GCN 2091

Lyu2113 = Lyuty, V. et al. 2003, GCN 2113

Mur2044 = Murakami, T. et al. 2003, GCN 2044

Ofe2031 = Ofek, E. O. et al. 2003, GCN 2031

Pav2050 = Pavlenko, E. et al. 2003, GCN 2050

Pav2067 = Pavlenko, E. et al. 2003, GCN 2067

Pav2083 = Pavlenko, E. et al. 2003, GCN 2083

Pav2097 = Pavlenko, E. et al. 2003, GCN 2097

Piz2228 = Pizzichini, G. et al. 2003, GCN 2228

Pri2058 = Price, A. et al. 2003, GCN 2058: American Association of Variable Star Observers

(AAVSO) Data from multiple observers (ftp://ftp.aavso.org/grb/GRB030329)

Pri423 = Price, P. A. et al. 2003, Nature, 423, 844

Pri5415 = Price, A. et al. 2003, IBVS 5415

Res440 = Resmi, L. et al. 2005, A&A, 440, 477

Rum2005 = Rumyantsev, V. et al. 2003, GCN 2005

Rum2028 = Rumyantsev, V. et al. 2003, GCN 2028

Rum2146 = Rumyantsev, V. et al. 2003, GCN 2146

Sas2217 = Sasaki, K. et al. 2003, GCN 2217

Sat2080 = Sato, R. et al. 2003, GCN 2080

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Sat599 = Sato, R. et al. 2003, ApJ, 599, L9
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Sem2111 = Semkov, E. et al. 2003, GCN 2111

Sem 2179 = Sem kov, E. et al. 2003, GCN 2179

Sim2124 = Simoncelli, A. et al. 2003, GCN 2124

Smi596 = Smith, D. A. et al. 2003, ApJ, 596, L151

Suz2116 = Suzuki, J. et al. 2003, GCN 2116

Tes2141 = Testa, V. et al. 2003, GCN 2141

Tob2066 = Tober, J. et al. 2003, GCN 2066

Tor597 = Torii, K. et al. 2003, ApJ, 597, L101

Uem423 = Uemura, M. et al. 2003, Nature, 423, 843

Ura2106 = Urata, Y. et al. 2003, GCN 2106

Zha2022 = Zharikov, S. et al. 2003, GCN 2022

Zha2075 = Zharikov, S. et al. 2003, GCN 2075

Zha2171 = Zharikov, S. et al. 2003, GCN 2171

Zha2245 = Zharikov, S. et al. 2003, GCN 2245

Zha2265 = Zharikov, S. et al. 2003, GCN 2265

Zha2276 = Zharikov, S. et al. 2003, GCN 2276

Note. —

The data from Lipkin, Y. M. et al. 2004, ApJ, 606, 381 (1644 data points) is not included in this listing, it is available at the following address:

http://wise-obs.tau.ac.il/~eran/GRB/030329/Data/GRB030329_LC.txt

Urata, Y. et al. 2004 (ApJ 601, L17) do not give their $R_{\rm C}$ data points (Kiso Observatory 1.05 m). Yet they give some R ($R_{\rm C}$?) and B data in GCN 2106, but definitely not all early R data. The data 3 days after the burst are, on the other hand, not included in their paper, as is the data from GCN 2116.

Bartolini, C. et al. 2003 (GCN 2002) have collected UBVRI photometry but only give 4 data points in GCN 2030 (Loiano 1.52m).

Lipunov, V. et al. 2003 (GCN 2035) report 114 measurements in R and present a light curve but no data. (MASTER 28cm)

Murakami, T. et al. 2003 (GCN 2044) should have several 100 observations with unfiltered 25cm telescope - only the first point is given.

Burenin, R. et al. (2003) state several times (GCN 2051, 2079, 2108, 2119) that they have taken BVRI data, but only R data is given.

Data from Kereszty, Z. et al. 2003 (ftp://ftp.aavso.org/grb/GRB030329/zsolt-grb030329.txt) can't be correct (thus not implemented) - they are much too bright, even if they were taken a day earlier than given in the report. Data from GCN 2071 are also

partly outliers, thus not implemented.

Urata, Y. 2003 (GCN 2106) must contain a typo. $R(t-t_0=0,15746)=13.719$ not 12.719. Still sticks out a bit, though.

 $\rm ftp://ftp.sao.ru/pub2/grb/GRB030329/$ (GCN 2145) is not accessible.

Cheng, H. et al. 2003 (GCN 2254, 2255) report VR_cI_c observations with 0.8128 m Tenagra II telescope but do not give data points.

Table 48. **GRB 030418**

dt	mag	error	band	date	corrections	reference	remark
0.09279	18.63	0.05	R	030418.5090	NE,NH	Ryk601	
0.09738	18.63	0.05	R	030418.5136	NE,NH	Ryk601	
0.10201	18.77	0.06	R	030418.5182	NE,NH	Ryk601	
0.10662	18.7	0.06	R	030418.5228	NE,NH	Ryk601	
0.11123	18.84	0.08	R	030418.5274	NE,NH	Ryk601	
0.19172	19.63	0.17	R	030418.6079	NE,NH	Ryk601	
0.19633	19.55	0.18	R	030418.6125	NE,NH	Ryk601	
0.20095	19.79	0.21	R	030418.6171	NE,NH	Ryk601	
0.20557	19.59	0.21	R	030418.6218	NE,NH	Ryk601	
0.21017	19.64	0.25	R	030418.6264	NE,NH	Ryk601	
0.392	20.5	0.3	R	030418.808	NE,NH	Fer2284	
0.433	20.65	0.29	R	030418.849	NE,NH	Fer2284	
0.96497	> 21.5		R	030419.3812	NE,NH	Ryk601	
2.60	23.3	0.1	R	030421.02	NE,NH	Dul2236	
6.58	24.9	0.4	R	030425.00	NE,NH	Dul2236	
0.003334	18.76	0.35	CR	030418.41952	NE,NH	Ryk601	
0.005851	17.84	0.08	CR	030418.42204	NE,NH	Ryk601	
0.009240	17.38	0.05	CR	030418.42543	NE,NH	Ryk601	
0.012650	17.47	0.06	CR	030418.42884	NE,NH	Ryk601	
0.016062	17.33	0.06	CR	030418.43225	NE,NH	Ryk601	
0.019467	17.31	0.05	CR	030418.43566	NE,NH	Ryk601	
0.022863	17.47	0.06	CR	030418.43905	NE,NH	Ryk601	
0.030429	17.52	0.04	CR	030418.44662	NE,NH	Ryk601	
0.078020	18.07	0.07	CR	030418.49421	NE,NH	Ryk601	
0.08324	18.38	0.1	CR	030418.4994	NE,NH	Ryk601	
0.089144	18.18	0.07	CR	030418.50533	NE,NH	Ryk601	
0.100168	18.04	0.07	CR	030418.51636	NE,NH	Ryk601	
0.244704	19.43	0.46	CR	030418.66089	NE,NH	Ryk601	

 $\mathrm{Dul}2236=\mathrm{Dullighan},\,\mathrm{A.}$ et al. 2003, GCN 2236

 $\mathrm{Fer}2284=\mathrm{Ferrero},\,\mathrm{P.}$ et al. 2003, GCN 2284

 ${\rm Ryk601} = {\rm Rykoff}, \, {\rm E. \, S. \, et \, al. \, 2004}, \, {\rm ApJ}, \, 601, \, 1013$

Table 49. **GRB 030429**

dt	mag	error	band	date	corrections	reference	remark
0.145	19.67	0.11	R	030429.591	NE,NH	Jak427	
0.154	19.39	0.08	\mathbf{R}	030429.600	NE,NH	Jak427	
0.170	19.62	0.09	\mathbf{R}	030429.616	NE,NH	Jak427	
0.214	19.56	0.11	\mathbf{R}	030429.660	NE,NH	Jak427	
0.374	20.20	0.15	\mathbf{R}	030429.820	NE,NH	Rum2218	
0.548	20.86	0.04	R	030429.994	NE,NH	Jak427	
0.777	21.13	0.04	R	030430.223	NE,NH	Jak427	
1.761	21.42	0.27	R	030501.207	NE,NH	Jak427	
1.862	21.27	0.09	R	030501.308	NE,NH	Jak427	
1.884	21.58	0.15	\mathbf{R}	030501.330	NE,NH	Jak427	
2.553	22.54	0.06	\mathbf{R}	030501.999	NE,NH	Jak427	
2.793	22.55	0.09	\mathbf{R}	030502.239	NE,NH	Jak427	
3.4318	23.5	0.5	\mathbf{R}	030502.8778	NE,NH	Kha2208	
3.632	23.71	0.12	R	030503.078	NE,NH	Jak427	
6.644	25.20	0.30	\mathbf{R}	030506.090	NE,NH	Jak427	
67.641	>26.3		R	030706.087	NE,NH	Jak427	
0.0786	> 18.8		CR	030429.5246	NE,NH	Smi2178	
0.0798	> 19.5		CR	030429.5258	NE,NH	Smi2178	
0.0948	>19.9		CR	030429.5408	NE,NH	Smi2178	

Jak427 = Jakobsson, P. et al. 2004, A&A, 427, 785

Kha2208 = Khamitov, I. et al. 2003, GCN 2208

Rum2218 = Rumyantsev, V. et al. 2003, GCN 2218

Smi2178 = Smith, D. A. et al. 2003, GCN 2178

Table 50. **GRB 030528**

dt	mag	error	band	date	corrections	reference	remark
14.8680	19.6	0.1	K	030612.4118	CE,NH	Rau427	
0.6920 1.6993 3.6486 5.821	18.6 18.9 19.6 >19.5	0.2 0.3 0.5	$\begin{array}{c} K_s \\ K_s \\ K_s \end{array}$ K_s	030529.2358 030530.2431 030601.1924 030603.365	CE,NH CE,NH CE,NH NE,NH	Rau427 Rau427 Rau427 Bog2275	

 $\rm Bog2275 = Bogosavljevic, \, M.$ et al. 2003, GCN 2275

Rau427 = Rau, A. 2004, et al. A&A, 427, 815

Table 51. XRF 030723

dt	mag	error	band	date	corrections	reference	remark
0.0484	>19.0		R	030723.318	NE,NH	Li2315	
0.1384	>20.0		R	030723.408	NE,NH	Li2315	
0.1736	20.92	0.11	R	030723.44329	NE,NH	Fyn609	
0.810	> 21.0		R	030724.080	NE,NH	Bon2316	
0.863	20.98	0.05	R	030724.133	NE,NH	Fyn609	
0.903	21	0.1	R	030724.173	NE,NH	Bon2329	
1.011	20.9	0.1	R	030724.281	NE,NH	Bon2329	
1.04	21.13	0.05	R	030724.31	NE,NH	Dul2326	
1.063	21.15	0.05	R	030724.333	NE,NH	Fyn609	
1.141	21.24	0.05	R	030724.411	NE,NH	Fyn609	
1.23	21.3		R	030724.5	NE,NH	Fox 2323	
1.844	22.00	0.1	R	030725.114	NE,NH	Fyn609	
2.076	22.31	0.07	R	030725.346	NE,NH	Fyn609	
2.138	22.13	0.05	R	030725.408	NE,NH	Fyn609	
2.144	>22.0		R	030725.414	NE,NH	Bon2329	
2.23	22.4		R	030725.5	NE,NH	Fox2323	
3.975	23.64	0.05	R	030727.245	NE,NH	Fyn609	
3.979	23.56	0.05	R	030727.249	NE,NH	Fyn609	
5.115	24.2	0.3	R	030728.385	NE,NH	Dul2336	
5.88	24.63	0.13	R	030729.15	NE,NH	Fyn609	
5.884	24.38	0.11	R	030729.154	NE,NH	Fyn609	
5.888	24.62	0.13	R	030729.158	NE,NH	Fyn609	
7.83	25.00	0.14	R	030731.1	NE,NH	Fyn609	
10.97	25.16	0.07	R	030803.24	NE,NH	Fyn609	
13.984	24.28	0.07	R	030806.254	NE,NH	Fyn609	
14.038	24.14	0.03	R	030806.308	NE,NH	Fyn609	
15.021	24.16	0.09	R	030807.291	NE,NH	Fyn609	
15.026	24.2	0.11	R	030807.296	NE,NH	Fyn609	
16.057	24.04	0.13	R	030808.327	NE,NH	Fyn609	
16.061	24.03	0.1	R	030808.331	NE,NH	Fyn609	
17.126	24.16	0.04	R	030809.396	NE,NH	Fyn609	
18.065	23.88	0.44	R	030810.335	NE,NH	Fyn609	

Table 51—Continued

dt	mag	error	band	date	corrections	reference	remark
24.782	25.08	0.09	R	030817.052	NE,NH	Fyn609	
26.898	24.99	0.06	R	030819.168	NE,NH	Fyn609	
42.021	25.97	0.12	R	030903.291	NE,NH	Fyn609	
63.865	26.58	0.29	R	030925.135	NE,NH	Fyn609	
70	27.6	0.4	R	031001	NE,NH	Kaw2412	
0.000549	>19.0		CR	030723.270195	NE,NH	Smi2338	
0.00222	> 19.7		CR	030723.27187	NE,NH	Smi2338	
0.00563	>19.1		CR	030723.27527	NE,NH	Smi2338	
0.01368	> 19.5		CR	030723.28333	NE,NH	Smi2338	
0.02174	19.5	0.4	CR	030723.29138	NE,NH	Smi2338	
0.02979	19.3	0.4	CR	030723.29944	NE,NH	Smi2338	
0.5364	> 20.5		CR	030723.806	NE,NH	Mon2312	
0.3394	>20.9		RI	030723.609	NE,NH	Fyn609	

Bon2316 = Bond, H. E. et al. 2003, GCN 2316

Bon2329 = Bond, H. E. et al. 2003, GCN 2329

Dul2326 = Dullighan, A. et al. 2003, GCN 2326

Dul2336 = Dullighan, A. et al. 2003, GCN 2336

Fox2323 = Fox, D. W. et al. 2003, GCN 2323

Fyn609 = Fynbo, J. P. U. et al. 2004, ApJ, 609, 962

Kaw2412 = Kawai, N. et al. 2003, GCN 2412

Li2315 = Li, W. et al. 2003, GCN 2315

Mon2312 = Monard, B. et al. 2003, GCN 2312

Smi2338 = Smith, D. A. et al. 2003, GCN 2338

Note. —

Kaw2412 state that the afterglow was detected in $I_{\rm c}$ and z' also but only an upper limit was found in V. No data are given for these bands. Time of observation is given only as "2003 September 29 - October 3 UT".

Table 52. **GRB 030725**

dt	mag	error	band	date	corrections	reference remark
0.304	18.59	0.21	$R_{\scriptscriptstyle C}$	030725.7944	NE,NH	Pug439
0.349	18.67	0.21	$R_{\rm C}$	030725.8393	NE,NH	Pug439
0.453	18.90	0.21	$R_{\rm C}$	030725.9437	NE,NH	Pug439
4.445	21.20	0.04	$R_{\rm C}$	030729.9355	NE,NH	Pug439
4.825	21.51	0.05	$R_{\rm C}$	030730.3151	NE,NH	Pug439
6.944	22.46	0.55	$R_{\rm C}$	030801.4347	NE,NH	Pug439
7.801	22.25	0.06	$R_{\rm C}$	030802.292	NE,NH	Pug439
8.842	22.45	0.08	$R_{\rm C}$	030803.33268	NE,NH	Pug439
10.299	22.57	0.10	$R_{\rm C}$	030804.7899	NE,NH	Pug439
11.863	22.96	0.10	$R_{\rm C}$	030806.3535	NE,NH	Pug439
12.827	23.04	0.09	$R_{\rm C}$	030807.3176	NE,NH	Pug439
13.821	22.87	0.17	$R_{\rm C}$	030808.3116	NE,NH	Pug439
14.845	22.54	0.20	$R_{\rm C}$	030809.336	NE,NH	Pug439
240.51	> 24.7		$R_{\scriptscriptstyle C}$	040322	NE,NH	Pug439
3.2334	>21.0		CR	030728.724	NE,NH	Mon2334
6.8144	22.25	0.05	r^*	030801.305	NE,NH	Dul2384
7.6754	22.55	0.05	r^*	030802.166	NE,NH	Dul2384

 $\mathrm{Dul}2384=\mathrm{Dullighan},\,\mathrm{A.}$ et al. 2003, GCN 2384

Mon2334 = Monard, B. et al. 2003, GCN 2334

Pug439 = Pugliese, G. et al. 2005, A&A, 439, 527

Table 53. **GRB 031203**

dt	mag	error	band	date	corrections	reference	remark
0.3703	18.13	0.034	J	031204.288	NE,NH	Mal609	
1.3403	18.273	0.064	J	031205.258	NE,NH	Mal609	
1.68	18.28	0.02	J	031205.6	NE,NH	Pro611	
2.31	18.28	0.13	J	031206.228	NE,NH	Cob608	
3.33	18.38	0.13	J	031207.248	NE,NH	Cob608	
5.38	18.32	0.13	J	031209.298	NE,NH	Cob608	
5.38	21.66	0.60	J	031209.297	NE,CH	Gal609	
6.38	18.18	0.13	J	031210.298	NE,NH	Cob608	
7.31	18.19	0.13	J	031211.228	NE,NH	Cob608	
7.39	20.57	0.21	J	031211.306	NE,CH	Gal609	
8.33	18.17	0.13	J	031212.248	NE,NH	Cob608	
9.34	18.19	0.13	J	031213.258	NE,NH	Cob608	
10.2223	18.144	0.066	J	031214.140	NE,NH	Mal609	
10.32	18.19	0.13	J	031214.238	NE,NH	Cob608	
11.32	18.1	0.13	J	031215.238	NE,NH	Cob608	
12.34	18.03	0.13	J	031216.258	NE,NH	Cob608	
13.36	18.25	0.16	J	031217.278	NE,NH	Cob608	
15.35	18.09	0.13	J	031219.268	NE,NH	Cob608	
17.34	18.13	0.13	J	031221.258	NE,NH	Cob608	
19.2733	18.046	0.103	J	031223.191	NE,NH	Mal609	
20.37	17.97	0.13	J	031224.288	NE,NH	Cob608	
23.36	18.12	0.13	J	031227.278	NE,NH	Cob608	
26.33	18.01	0.13	J	031230.248	NE,NH	Cob608	
30.32	18.05	0.13	J	040103.238	NE,NH	Cob608	
38.32	18.02	0.13	J	040111.238	NE,NH	Cob608	
50.21	20.60	0.21	J	040123.132	NE,CH	Gal609	
50.34	18.19	0.13	J	040123.258	NE,NH	Cob608	
57.31	18.27	0.16	J	040130.228	NE,NH	Cob608	
69.24	18.29	0.13	J	040211.158	NE,NH	Cob608	
78.2	18.32	0.13	J	040220.118	NE,NH	Cob608	
86.1933	18.24	0.079	J	040228.111	NE,NH	Mal609	
92.19	18.29	0.13	J	04035.108	NE,NH	Cob608	

Cob608 = Cobb, B. E. et al. 2004, ApJ, 608, L93

Gal609 = Gal-Yam, A. et al. 2004, ApJ, 609, L59

Mal609 = Malesani, D. et al. 2004, ApJ, 609, L5

 ${\rm Pro}611 = {\rm Prochaska},\,{\rm J.~X.~et~al.~2004},\,{\rm ApJ},\,611,\,200$

Table 54. **GRB 031220**

dt	mag	error	band	date	corrections	reference	remark
0.3466	>20.9	0	R	031220.492	NE,NH	Hua2494	
1.0492	23.03	0.04	\mathbf{R}	031221.195	NE,NH	Gor2513	
7.9125	23.48	0.11	\mathbf{R}	031228.0583	NE,NH	Ant2503	
0.0792	> 19.2	0	CR	031220.22496	NE,NH	Ryk2495	
0.2460	> 16.5	0	CR	031220.39177	NE,NH	Sat2496	
0.2674	> 17.8	0	CR	031220.4132	NE,NH	Uem2498	
0.2754	> 17.51	0	CR	031220.4212	NE,NH	Fuk2510	
0.2223	>21	0	r'	031220.3681	NE,NH	Fox2499	

Ant2503 = Antonelli, L. A. et al. 2003, GCN 2503

Fox2499 = Fox, D. B. et al. 2003, GCN 2499

Fuk2510 = Fukami, C. et al. 2004, GCN 2510

Gor2513 = Gorosabel, J. et al. 2004, GCN 2513

Hua2494 = Huang, K. Y. et al. 2003, GCN 2494

Ryk2495 = Rykoff, E. S. et al. 2003, GCN 2495

Sat2496 = Sato, R. et al. 2003, GCN 2496

Uem2498 = Uemura, M. et al. 2003, GCN 2498

Note. —

It is unclear if the fading optical candidate found by Gor2513 (in comparison with the later measurements by Ant2503) is truly the afterglow - Chandra data seem to favor another source that was only detected by Gor2513 at $R=24.40\pm0.18$.

Table 55. **GRB 040106**

dt	mag	error	band	date	corrections	reference	remark
0.4523	>18.7	0	R	040107.199	NE,NH	Pal2511	
0.58	> 21	0	R	040107.327	NE,NH	Fox2514	
0.609	22.4	0.1	R	040107.356	NE,NH	Mas2515	
1.54	> 21	0	R	040108.287	NE,NH	Fox2514	
1.604	23.7	0.3	R	040108.351	NE,NH	Mas2515	
12.547	26.5	0.3	\mathbf{R}	040119.294	NE,NH	NMPC	1
12.547	25.9	0.2	R	040119.294	NE,NH	NMPC	2

Fox2514 = Fox, D. B.et al. 2004, GCN 2514

Mas2515 = Masetti, N. et al. 2004, GCN 2515

NMPC = Masetti, N. 2004, private communication

Pal2511 = Palazzi, E. et al. 2004, GCN 2511

Note. —

1 =as reduced by E. Rol

2=as reduced by N. Masetti

Table 56. **GRB 040422**

dt	mag	error	band	date	corrections	reference	remark
0.0792 13.04 64.82	18.0 >20.2 20.3	0.1	$egin{array}{c} K_{\mathrm{S}} \ K_{\mathrm{S}} \ K_{\mathrm{S}} \end{array}$	040422.3695 040505.33 040626.11	NE,NH NE,NH NE,NH	Fil438 Fil438 Fil438	

Fil438 = Filliatre, P. et al. 2005, A&A, 438, 793

Note. —

The analysis in Fil438 supersedes the upper limit given in GCN 2753 (D. Malesani 2004).

Table 57. **GRB 040827**

dt	mag	error	band	date	corrections	reference	remark
0.745	19.36	0.1	K	040828.239	NE,NH	Tan2682	
1.745	19.81	0.15	K	040829.239	NE,NH	Tan2684	
0.466	19.02	0.30	$K_{\scriptscriptstyle \mathrm{S}}$	040827.96	NE,NH	DeL440	
0.486	18.95	0.08	${ m K_s}$	040827.98	NE,NH	DeL440	1
0.516	18.94	0.10	$K_{\rm S}$	040828.01	NE,NH	DeL440	
0.539	19.4	0.15	$K_{\rm S}$	040828.033	NE,NH	Gla2681	
0.556	19.80	0.57	K_{s}	040828.05	NE,NH	DeL440	
1.476	19.9	0.2	$K_{\rm S}$	040828.97	NE,NH	Kap2683	
1.486	20.05	0.13	K_s	040828.98	NE,NH	DeL440	
19.526	20.08	0.15	$K_{\rm S}$	040916.02	NE,NH	DeL440	
27.516	19.88	0.10	K_s	040924.01	NE,NH	DeL440	
31.506	20.35	0.20	K_s	040928.00	NE,NH	DeL440	
	20.05	0.07	K_s		NE,NH	DeL440	2

DeL440 = De Luca, A. et al. 2005, A&A, 440, 85

Gla2681 = Gladders, M. et al. 2004, GCN 2681

Kap2683 = Kaplan, D. L. et al. 2004, GCN 2683

Tan 2682 = Tanvir, N. et al. 2004, GCN 2682

Tan 2684 = Tanvir, N. et al. 2004, GCN 2684

Note. —

 $^{1 = \}text{sum of the images taken on } 040827.96 \text{ an } 28.01$

 $^{2 = \}text{host galaxy magnitude derived from summed images without afterglow contribution}$

Table 58. **XRF 040916**

dt	mag	error	band	date	corrections	reference	remark
32.4	>27.54		R	041018.38	СЕ,СН	Sod627	
75.3	> 27.54		R	041130.30	CE,NH	Sod627	
0.1110	>19.4		$R_{\scriptscriptstyle \mathrm{C}}$	040916.1100	NE,NH	Klo2729	
0.1455	>21		$R_{\rm C}$	040916.1444	NE,NH	deU2717	
0.234	22.3	0.2	$R_{\rm C}$	040916.233	NE,NH	Kos 2726	
0.3545	> 20.5		$R_{\rm c}$	040916.3535	NE,NH	Kil2715	
0.368	22.7	0.2	$R_{\rm C}$	040916.367	NE,NH	Kos 2726	
0.4135	> 20.5		$R_{\rm C}$	040916.4125	NE,NH	Kil2715	
2.493	24.8	0.2	$R_{\rm C}$	040916.492	NE,NH	Kos 2726	
4.431	25	0.3	$R_{\rm C}$	040920.430	NE,NH	Kos 2730	
0.015613	> 11.5		CR	040916.014572	NE,NH	Cwi2725	
0.017175	> 13.0		CR	040916.016134	NE,NH	Cwi2725	
0.105187	> 18.3		CR	040916.104146	NE,NH	Ryk2714	
0.106229	>19.2		CR	040916.105188	NE,NH	Ryk2714	

Cwi2725 = Cwiok, M. et al. 2004, GCN 2725

deU2717 = de Ugarte Postigo, A. et al. 2004, GCN 2717

Kil2715 = Kilmartin, P. 2004, et al. GCN 2715

Klo2729 = Klotz, A. 2004, et al. GCN 2729

Kos2726 = Kosugi, G. 2004, et al. GCN 2726

Kos2730 = Kosugi, G. 2004, et al. GCN 2730

Ryk2714 = Rykoff, E. S. 2004, et al. GCN 2714

Sod627 = Soderberg, A. M. et al. 2005, ApJ, 627, 877

Note. —

All times are measured not against the HETE trigger time (040916.002431), but against the approximate beginning of the first, untriggered peak, 300 seconds earlier (040915.998959) - thus, this should be XRF 040915.

A very faint source is detected in the first epoch HST images of Sod627, lying below the 3σ detection threshold given above. It is assumed that the detection limit is the same for both epochs.

Kosugi et al. (GCN 2726, 2730) report Subaru detection in B, V, R_c , I_c and z'. Only R_c magnitudes are given.

Table 59. **GRB 040924**

dt	mag	error	band	date	corrections	reference	remark
0.35664	>19.2	0.2	R	040924.85122	NE,NH	Pav2753	
0.47904	>21.0	0.2	R	040924.97361	NE,NH	Pav2753	
0.01095	18.0	0.03	$R_{\rm C}$	040924.50552	NE,NH	Fox2741	
0.018866	18.44	0.05	$R_{\rm C}$	040924.513438	NE,NH	Hua628	
0.03470	18.87	0.05	$R_{\rm C}$	040924.52927	NE,NH	Fox2741	
0.044560	19.31	0.15	$R_{\rm C}$	040924.539132	NE,NH	Hua628	
0.138009	20.71	0.13	$R_{\rm C}$	040924.632581	NE,NH	Hua628	
0.284676	21.39	0.15	$R_{\rm C}$	040924.779248	NE,NH	Hua628	
0.322407	21.47	0.15	$R_{\rm C}$	040924.816979	NE,NH	Hua628	
0.349386	21.47	0.14	$R_{\rm C}$	040924.843958	NE,NH	Hua628	
0.373333	21.59	0.17	$R_{\rm C}$	040924.867905	NE,NH	Hua628	
0.37522	22.1		$R_{\rm C}$	040924.86979	NE,NH	Kha2740	
0.61480	22.7		$R_{\rm C}$	040925.10938	NE,NH	Kha2749	
0.685	> 18.9		$R_{\rm C}$	040925.180	NE,NH	Sil2833	
0.7242	22.1		$R_{\rm C}$	040925.2188	NE,NH	Fyn2747	
0.868275	> 22.47		$R_{\rm C}$	040925.362847	NE,NH	Hua628	
0.9108	22.68	0.07	$R_{\rm C}$	040925.4054	NE,NH	Sil2833	
1.55230	23.7	0.2	$R_{\rm C}$	040926.0469	NE,NH	Kha2752	
0.168333	>16.6		CR	040924.662905	NE,NH	Son2751	
0.223443	> 17.5		CR	040924.718015	NE,NH	Lip2737	
0.236203	>18.5		CR	040924.730775	NE,NH	Lip2738	
0.08564	>19		RI	040924.58021	NE,NH	Pér2739	
0.21	> 20.5		RI	040924.705	NE,NH	Pér2739	

Fox2741 = Fox, D. W. et al. 2004, GCN 2741

Fyn2747 = Fynbo, J. P. U. et al. 2004, GCN 2747

Hua628 = Huang, K. Y. et al. 2005, ApJL, 628, L93

Kha2740 = Khamitov, I. et al. 2004, GCN 2740

Kha2749 = Khamitov, I. et al. 2004, GCN 2749

Kha2752 = Khamitov, I. et al. 2004, GCN 2752

Lip2737 = Lipunov, V. et al. 2004, GCN 2737

Lip2738 = Lipunov, V. et al. 2004, GCN 2738

Pav2753 = Pavlenko, E. et al. 2004, GCN 2753

Pér2739 = Pérez-Ramírez, D. et al. 2004, GCN 2739

Sil2833 = Silvey, J. et al. 2004, GCN 2833

Son2751 = Sonoda, E. et al. 2004, GCN 2751

Table 60. **GRB 041006**

dt	mag	error	band	date	corrections	reference	remark
0.00266	17.2	0.1	$R_{\rm c}$	041006.51525	NE,NH	Mae2772	1
0.02305	17.8	0.04	$R_{\rm C}$	041006.53564	NE,NH	Ura2767	
0.0774	18.9	0.1	$R_{\rm C}$	041006.58999	NE,NH	Pri2771	1
0.14643	19.1	0.09	$R_{\rm C}$	041006.65902	NE,NH	Kah2775	1
0.186	19.5	0.1	$R_{\rm C}$	041006.69859	NE,NH	Kah2775	1
0.1974	19.6	0.1	$R_{\rm C}$	041006.70999	NE,NH	Aya2779	1
0.2637	19.81	0.05	$R_{\rm C}$	041006.77629	NE,NH	Mis2795	
0.2974	19.75	0.1	$R_{\rm C}$	041006.80999	NE,NH	Rum2798	1
0.3179	20	0.05	$R_{\rm C}$	041006.83049	NE,NH	Mis2795	
0.3227	20.3	0.1	$R_{\rm C}$	041006.83529	NE,NH	Kin2785	1
0.3267	20.1	0.3	$R_{\rm C}$	041006.83929	NE,NH	Fer2777	1
0.338	20.1	0.3	$R_{\rm C}$	041006.85059	NE,NH	Fer2777	1
0.3498	20.02	0.05	$R_{\rm C}$	041006.86239	NE,NH	Mis2795	
0.3511	20.2	0.3	$R_{\rm C}$	041006.86369	NE,NH	Fer2777	1
0.3646	20.18	0.06	$R_{\rm C}$	041006.87719	NE,NH	Mis2795	
0.4074	20.4	0.1	$R_{\rm C}$	041006.91999	NE,NH	Mon2790	
0.4474	20.5	0.1	$R_{\rm C}$	041006.95999	NE,NH	Fyn2802	
0.4501	20.35	0.3	$R_{\rm C}$	041006.96269	NE,NH	Fer2777	1
0.4674	20.6	0.1	$R_{\rm C}$	041006.97999	NE,NH	Mon2790	
0.5574	20.76	0.04	$R_{\rm C}$	041007.06999	NE,NH	Fug2782	
0.6225	20.931	0.023	$R_{\rm C}$	041007.1351	NE,NH	Sta626	
0.6303	> 19.3		$R_{\rm C}$	041007.14289	NE,NH	Wil2830	
0.6311	20.918	0.017	$R_{\rm C}$	041007.1437	NE,NH	Sta626	
0.6397	20.973	0.021	$R_{\rm C}$	041007.1523	NE,NH	Sta626	
0.6418	20.925	0.021	$R_{\rm C}$	041007.1544	NE,NH	Sta626	
0.6437	20.954	0.02	$R_{\rm C}$	041007.1563	NE,NH	Sta626	
0.6455	20.952	0.028	$R_{\rm C}$	041007.1581	NE,NH	Sta626	
0.6473	20.997	0.027	$R_{\rm C}$	041007.1599	NE,NH	Sta626	
0.6492	20.995	0.033	$R_{\rm C}$	041007.1618	NE,NH	Sta626	
0.651	21.023	0.03	$R_{\rm C}$	041007.1636	NE,NH	Sta626	
0.6528	20.989	0.023	$R_{\rm C}$	041007.1654	NE,NH	Sta626	
0.6547	20.975	0.035	$R_{\rm C}$	041007.1673	NE,NH	Sta626	
0.6565	21.005	0.022	$R_{\rm C}$	041007.1691	NE,NH	Sta626	

Table 60—Continued

dt	mag	error	band	date	corrections	reference	remark
0.6583	20.99	0.019	$R_{\rm C}$	041007.1709	NE,NH	Sta626	
0.6601	21.01	0.027	$R_{\rm c}$	041007.1727	NE,NH	Sta626	
0.662	20.962	0.03	$R_{\rm C}$	041007.1746	NE,NH	Sta626	
0.6639	20.996	0.038	$R_{\rm C}$	041007.1765	NE,NH	Sta626	
0.6657	21.051	0.032	$R_{\rm C}$	041007.1783	NE,NH	Sta626	
0.6675	20.991	0.021	$R_{\rm C}$	041007.1801	NE,NH	Sta626	
0.6693	21.023	0.021	$R_{\rm C}$	041007.1819	NE,NH	Sta626	
0.6712	21.07	0.023	$R_{\rm C}$	041007.1838	NE,NH	Sta626	
0.673	21.02	0.026	$R_{\rm C}$	041007.1856	NE,NH	Sta626	
0.6749	21.037	0.026	$R_{\rm C}$	041007.1875	NE,NH	Sta626	
0.6767	21.057	0.025	$R_{\rm C}$	041007.1893	NE,NH	Sta626	
0.6771	> 19.3		$R_{\rm C}$	041007.18969	NE,NH	Wil2830	
0.6785	21.028	0.019	$R_{\rm C}$	041007.1911	NE,NH	Sta626	
0.6804	21.028	0.028	$R_{\rm C}$	041007.193	NE,NH	Sta626	
0.6822	21.073	0.029	$R_{\rm C}$	041007.1948	NE,NH	Sta626	
0.684	21.056	0.03	$R_{\rm C}$	041007.1966	NE,NH	Sta626	
0.6859	21.051	0.03	$R_{\rm C}$	041007.1985	NE,NH	Sta626	
0.6877	21.036	0.028	$R_{\rm C}$	041007.2003	NE,NH	Sta626	
0.6895	21.052	0.025	$R_{\rm C}$	041007.2021	NE,NH	Sta626	
0.6913	21.034	0.026	$R_{\rm C}$	041007.2039	NE,NH	Sta626	
0.6931	21.077	0.025	$R_{\rm C}$	041007.2057	NE,NH	Sta626	
0.7014	21.079	0.024	$R_{\rm C}$	041007.214	NE,NH	Sta626	
0.7032	21.05	0.019	$R_{\rm C}$	041007.2158	NE,NH	Sta626	
0.7051	21.044	0.023	$R_{\rm C}$	041007.2177	NE,NH	Sta626	
0.7069	21.047	0.021	$R_{\rm C}$	041007.2195	NE,NH	Sta626	
0.7087	21.052	0.02	$R_{\rm C}$	041007.2213	NE,NH	Sta626	
0.7105	21.036	0.022	R_{c}	041007.2231	NE,NH	Sta626	
0.7124	21.086	0.025	$R_{\rm C}$	041007.225	NE,NH	Sta626	
1.135	> 19.5		$R_{\rm C}$	041007.64759	NE,NH	Sha2799	
1.337	>20.4		$R_{\rm C}$	041007.84959	NE,NH	Rum2798	
1.4314	22.22	0.13	$R_{\rm C}$	041007.94399	NE,NH	Gre2804	
1.5874	22.12	0.08	$R_{\rm C}$	041008.09999	NE,NH	D'Av2788	
1.7407	22.33	0.04	$R_{\rm C}$	041008.2533	NE,NH	Sta626	

Table 60—Continued

dt	mag	error	band	date	corrections	reference	remark
1.7851	22.351	0.02	$R_{\rm C}$	041008.2977	NE,NH	Sta626	
1.7931	22.367	0.022	$R_{\rm C}$	041008.3057	NE,NH	Sta626	
2.7341	22.97	0.05	$R_{\rm C}$	041009.2467	NE,NH	Sta626	
2.7557	22.878	0.06	$R_{\rm C}$	041009.2683	NE,NH	Sta626	
2.9086	22.98	0.08	$R_{\rm C}$	041009.4212	NE,NH	Sta626	
2.9176	23.072	0.07	$R_{\rm C}$	041009.4302	NE,NH	Sta626	
3.537	> 22.64		$R_{\rm C}$	041010.04959	NE,NH	Bal2821	
3.7266	23.33	0.08	$R_{\rm C}$	041010.2392	NE,NH	Sta626	
3.8531	23.539	0.07	$R_{\rm C}$	041010.3657	NE,NH	Sta626	
3.8613	23.568	0.07	$R_{\rm C}$	041010.3739	NE,NH	Sta626	
4.517	> 23.30		$R_{\rm C}$	041011.02959	NE,NH	Bal2821	
4.6084	23.59	0.06	$R_{\rm C}$	041011.12099	NE,NH	Cov2803	
4.6674	23.6	0.1	$R_{\rm C}$	041011.17999	NE,NH	Fyn2802	
8.4684	23.8	0.25	$R_{\rm C}$	041014.98099	NE,NH	Bal2821	
9.8622	24.119	0.16	$R_{\rm C}$	041016.3748	NE,NH	Sta626	
12.4134	24.1	0.2	$R_{\rm C}$	041018.92599	NE,NH	Bik2826	
27.5763	24.08	0.1	$R_{\rm C}$	041103.0889	NE,NH	Sta626	
30.7511	24.04	0.1	$R_{\rm C}$	041106.2637	NE,NH	Sta626	
36.904	23.87	0.11	$R_{\rm C}$	041112.4166	NE,NH	Sta626	
56.5242	24.77	0.12	$R_{\rm C}$	041202.0368	NE,NH	Sta626	
64.5516	25.11	0.23	$R_{\rm C}$	041210.0642	NE,NH	Sta626	
0.01127	17.5	0.4	CR	041006.52386	NE,NH	Yos2776	1
0.027	17.8	0.1	CR	041006.53959	NE,NH	Kin2832	
0.06003	18.5	0.4	CR	041006.57262	NE,NH	Yos2776	1
0.1089	18.9	0.1	CR	041006.62149	NE,NH	Kin2832	
0.208	>18.8		CR	041006.72059	NE,NH	Lip2773	1
0.3173	>19.4		CR	041006.82989	NE,NH	Klo2784	

Aya2779 = Ayani, K. et al. 2004, GCN 2779

Bik2826 = Bikmaev, I. et al. 2004, GCN 2826

Cov2803 = Covino, S. et al. 2004, GCN 2803

D'Av2788 = D'Avanzo, P. et al. 2004, GCN 2788

Fer2777 = Ferrero, P. et al. 2004, GCN 2777

Fug2782 = Fugazza, D. et al. 2004, GCN 2782

Fyn2802 = Fynbo, J. P. U. et al. 2004, GCN 2802

Gar2792 = Garnavich, P. et al. 2004, GCN 2792

Gre2804 = Greco, G. et al. 2004, GCN 2804

Kah2775 = Kahharov, B. et al. 2004, GCN 2775

Kin2785 = Kinoshita, D. et al. 2004, GCN 2785

Kin2832 = Kinugasa, K. et al. 2004, GCN 2832

Klo2784 = Klotz, A. et al. 2004, GCN 2784

Lip2773 = Lipunov, V. et al. 2004, GCN 2773

Mae2772 = Maeno, S. et al. 2004, GCN 2772

Mis2795 = Misra, K. et al. 2004, GCN 2795

Mon2790 = Monfardini, A. et al. 2004, GCN 2790

Pri2771 = Price, P. A. et al. 2004, GCN 2771

Rum2798 = Rumyantsev, V. et al. 2004, GCN 2798

Sha2799 = Shaw, S. et al. 2004, GCN 2799

Sta626 = Stanek, K. Z. et al. 2005, ApJ, 626, L5

Ura2767 = Urata, Y. et al. 2004, GCN 2767 (refined, private communication)

Wil2830 = Williams, G. et al. 2004, GCN 2830

Yos2776 = Yost, S. A. et al. 2004, GCN 2776

Note. —

1 =corrected by +0.4 magnitudes